

# INDEX OF PUBLICATIONS



**2003**

# **WALTER REED ARMY INSTITUTE OF RESEARCH**

## **INDEX TO PUBLICATIONS**

**2003**

### Table Of Contents

1. Preface	ii
2. Some Major Accomplishments	iii
3. Journal Articles	1-23
4. Book Chapters	24-25
5. Technical Reports	26
6. Abstracts & Conference Papers	27-41
7. Patents	42-45
8. Author Index	46-113
9. Title Index	114-123
10. Subject Index	124-157

# **PREFACE**

## **About the Walter Reed Army Institute of Research**

The Walter Reed Army Institute of Research (WRAIR, pronounced "rare") consists of ten scientific divisions each representing a scientific discipline, six support divisions, two detachments in the United States and three overseas laboratories. The Institute specializes in medical research in biochemistry, immunology, experimental therapeutics, military medicine, neuropsychiatry, experimental pathology, blood products, preventive medicine, retrovirology [HIV], vaccines and their delivery systems, communicable diseases, biological and chemical threats, and combat dentistry and surgery. The staff is roughly 50% military and 50% civilian, equally divided between scientific and support personnel. Important organizational components of the WRAIR are the special field activities in Thailand, Kenya, and Germany. Research and support functions at the overseas labs are closely coordinated with efforts at the main facility near Washington, D.C.

The mission of WRAIR is to counter threats from three sources: biologically active substances, high energy and trauma, and stress and performance. The historic emphasis at WRAIR is research against naturally occurring infectious agents encountered in military training or operations. The threat of "biologically active substances" encompasses naturally occurring infectious diseases, toxins, and commonly used chemicals. In addition, there is significant research to counter physical (environmental) threats and psychological disease in training and in combat operations.

WRAIR primarily works at the applied research and pre-development level, but the Institute is also intimately involved in product development with the United States Army Medical Material Development Agency (USAMMDA), Ft. Detrick, MD. By chairing and serving on scientific steering committees, WRAIR scientists provide the technical guidance required for rational development of technical base initiatives. In addition, many products are developed and tested at the WRAIR Special Field Activity Laboratories.

WRAIR's efforts are not limited to research; WRAIR was originally founded in 1893 as the U.S. Army Medical School. It continues to be a center of learning through the military preventive medicine residency, a military medical research fellowship program, and short courses in tropical medicine, veterinary medicine and other subjects. Many of our post-doctoral fellowships bring outstanding young scientists to the Institute for up to two years at a time.

The vertical integration which marks WRAIR's structure has been present from the beginning. Just as Major Walter Reed did his outstanding work on yellow fever as a member of the first faculty, the Institute today still has the capability of identifying a threat, determining its cause, designing an answer, testing it under actual field conditions, and teaching others to use the results.

# **SOME MAJOR ACCOMPLISHMENTS**

## **Some Major Accomplishments**

- 1898: Reed-Vaughn-Shakespeare Typhoid Board established mechanism of transmission.
- 1900: Yellow Fever Board, in Cuba, proved mosquito transmission of yellow fever.
- 1918: Maj. R. L. Kahn devised what became the standard serologic test for syphilis.
- 1925: Col. Calvin H. Goodard began work which led to the science of comparative ballistics.
- 1933: Atabrine was introduced as a substitute for quinine in combating malaria.
- 1940-45: Work by Cpt. D. B. Kendrick led to the first system of blood banking, storage and use.
- 1957: Drs. Hilleman and Buescher isolated Asian flu virus strain used to make first vaccine.
- 1962: Drs. Parkman, Artenstein and Buescher isolated the Rubella virus, leading to a vaccine.
- 1979: WRAIR psychologists played a major role in developing the Army's new manning system.
- 1982: WRAIR immunologists began work to develop the world's first promising malaria vaccine.
- 1990: Maj. Robert DeFraites, Maj. Jose Sanchez, and LTC Charles Hoke conducted a major vaccine vaccine field trial with a Japanese encephalitis virus vaccine. This was the last hurdle prior to licensure of a commercial product.
- 1995: A hepatitis A vaccine is licensed. WRAIR scientists did much of the preliminary research on this vaccine strain and a pivotal field trial in Thailand.

# **JOURNAL ARTICLES**

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<http://www.arvo.org/root/index.asp>

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## WRAIR 2003 PATENTS

United States Patent no. **6,511,667**, granted January 28, 2003: Attenuated dengue-2 virus vaccine.

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United States Patent no. **6,514,501**, granted February 4, 2003: Recombinant vaccine against dengue virus.

Inventors:

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King; Alan D. (Washington, DC)

United States Patent no. **6,527,715**, granted March 4, 2003: System and method for predicting human cognitive performance using data from an actigraph.

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United States Patent no. **6,528,065**, granted March 4, 2003: Attenuated dengue-3 virus vaccine.

Inventors:

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Dubois; Doria R. (Wheaton, MD)  
Innis; Bruce L. (Hayerford, PA)  
Hoke; Charles H. (Columbia, MD)  
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United States Patent no. **6,528,097**, granted March 4, 2003: Sustained release non-steroidal, anti-inflammatory and lidocaine PLGA microspheres.

Inventors:

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United States Patent no. **6,530,884**, granted March 11, 2003: Method and system for predicting human cognitive performance.

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United States Patent no. **6,531,487**, granted March 11, 2003: Indolo[2,1-b] quinazole-6, 12-dione antimarial compounds and methods of treating malaria therewith.

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United States Patent no. **6,537,557**, granted March 25, 2003: Attenuated dengue-4 virus vaccine.

Inventors:

Eckels; Kenneth H. (Rockville, MD)  
Putnak; Joseph R. (Silver Spring, MD)  
Dubois; Doria R. (Wheaton, MD)  
Innis; Bruce L. (Haverford, PA)  
Hoke; Charles H. (Columbia, MD)  
Vaughn; David (Silver Spring, MD)

United States Patent no. **6,541,230**, granted April 1, 2003: Detoxification with sponges or foams containing plurality of enzymes and encapsulated indicator.

Inventors:

Gordon; Richard K. (Potomac, MD)  
Doctor; Bhupendra P. (Potomac, MD)

United States Patent no. **6,553,252**, granted April 22, 2003: Method and system for predicting human cognitive performance.

Inventors:

Balkin; Thomas J. (Ellicott City, MD)  
Belenky; Gregory L. (Kensington, MD)  
Hall; Stanley W. (Silver Spring, MD)  
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Thomas; Maria L. (Columbia, MD)  
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United States Patent no. **6,558,677**, granted May 6, 2003: Vaccine against gram negative bacteria.

Inventors:

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Saunders; Agnes G. (Silver Spring, MD)  
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United States Patent no. **6,573,244**, granted June 3, 2003: Previns as specific inhibitors and therapeutic agents for Botulinum toxin B and Tetanus neurotoxins.

Inventors:

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United States Patent no. **6,613,556**, granted on September 2, 2003: Adaptation of virus to vertebrate cells.

Inventors:

Eckels; Kenneth H. (Rockville, MD)  
Putnak; Joseph R. (Silver Spring, MD)  
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United States Patent no. **6,628,751**, granted on September 30, 2003: Digital radiographic sensor view capture.

Inventors:

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United States Patent no. **6,638,514**, granted October 28, 2003: Multivalent dengue virus vaccine.

Inventors:

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Putnak; Joseph R. (Silver Spring, MD)  
Dubois; Doria R. (Wheaton, MD)  
Innis; Bruce L. (Haverford, PA)  
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United States Patent no. **6,641,815**, granted November 4, 2003: Sequestrin.

Inventors:

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Ockenhouse; Christian F. (Burtonsville, MD)

United States Patent no. **6,642,037**, granted November 4, 2003: Preparation of enzymatically active sponges or foams for detoxification of hazardous compounds.

Inventors:

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Lenz; David (Bel Air, MD)  
Lejeune; Keith (Pittsburgh, PA)  
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United States Patent no. **6,654,736**, granted November 25, 2003: Chemical information systems.

Inventors:

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Notsch; John D. (Rockville, MD)  
McGreevy; Patrick B. (Glencoe, CA)

United States Patent no. **6,664,280**, granted December 16, 2003: Antivesicant compounds and methods of making and using thereof.

Inventors:

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# **AUTHOR INDEX**

**AUTHOR INDEX**

- Abercrombie,J. J.** 37
- Achilla,R.** 461
- Achilla,Rachel** 460
- Adams,J.** 15, 266
- Adler,Amy B.** 281, 282, 285
- Aguayo,N.** 395
- Aisen,P. S.** 345
- Akala,H.** 275, 276, 461, 462
- Akala,Hosea** 460
- Akers,A.** 320
- Akers,Andre** 287
- Akinboye,D. O.** 79
- Alam,U.** 42, 139
- Alava,A.** 25, 395
- Albert,J.** 263
- Albrecht-Schmitt,T. J.** 67
- Aldrich,J. R.** 260
- Allegra,J. R.** 394
- Allen,Ronald D.** 286
- Alonso,G.** 203
- Alving,C. R.** 8, 9, 28, 142, 178, 192, 193, 234, 235, 311, 389, 404, 447, 448
- Ammann,Jeffrey R.** 302
- Amoroso,P.** 88
- Amphaiphis,R.** 171
- Andersen,E. M.** 68
- Anderson,D. R.** 412, 413
- Anderson,J.** 65, 292

- Anderson,M. K.** 303  
**Anderson,S.** 241  
**Anderson,S. M.** 147, 329  
**Andrade,R.** 395  
**Angelovski,G.** 166  
**Angov,E.** 1, 64, 304, 305, 352  
**Anova,L.** 390, 470  
**Ansai,T.** 165  
**Anuntagool,N.** 248  
**Arakawa,T.** 2  
**Arana,B. A.** 206  
**Aree,C.** 252  
**Arevalo,I.** 270  
**Arjumand,F.** 89  
**Arnaud,F.** 306  
**Arnold,M. A.** 195  
**Aronoff,D. M.** 3  
**Aronson,N.** 40, 194  
**Aronson,N. E.** 21, 68, 338  
**Aroonrerk,N.** 4  
**Arsenault,J. E.** 307  
**Arulanantham,N.** 144  
**Ascherio,A.** 127, 128  
**Ashani,Y.** 5  
**Asher,C.** 308, 409  
**Asher,L.** 306  
**Asher,L. V.** 135, 218, 417  
**Askew,E. W.** 269

- Atkins,J. A.** 313, 449  
**Atkins,J. L.** 50, 250, 402  
**Atkins,James L.** 288, 289, 290  
**Aufiero,B. M.** 1  
**Avila,M. M.** 395  
**Ayafor,J. F.** 101  
**Ayala,C. I.** 395  
**Ayisi,J. G.** 6  
**Ayyagari,V.** 309, 343  
**Ayyagari,V. N.** 310  
**Azad,A. F.** 139  
**Babai,I.** 311  
**Babon,J.** 64  
**Bacchi,C.** 101  
**Bachmann,P.** 233  
**Bakaltcheva,I.** 7  
**Baker,J.** 29, 323  
**Baldeon,E.** 426  
**Balkin,T.** 204, 364, 371, 414, 465  
**Balkin,T. J.** 10, 312  
**Ballou,W. R.** 1, 68, 231  
**Bangs,M. J.** 198  
**Bansal,R.** 396, 444  
**Baranji,L.** 311  
**Baranyi,L.** 8, 9, 234, 235, 447, 448  
**Barash,J.** 219  
**Barbosa,A.** 6, 54, 333, 352, 372  
**Barenholz,Y.** 447, 448

- Barile,A. J.** 14, 21  
**Barnwell,J. W.** 304  
**Barouch,D. H.** 141  
**Barrett,A. J.** 17  
**Bartone,Paul T.** 282  
**Basri,H.** 237  
**Basta,M.** 8, 9  
**Bastow,K. F.** 120  
**Batalov,S.** 122  
**Bauman,R.** 140  
**Bauman,R. A.** 381  
**Bautista,C. T.** 68, 395  
**Baxter,Catherine M.** 319  
**Beaudry,K.** 141  
**Bedir,E.** 33, 159  
**Belenky,G.** 10, 360, 364, 371, 414, 451, 465  
**Belenky,G. L.** 312, 362  
**Bell,D.** 153  
**Bell,S. J.** 466  
**Bellebaum,K.** 72  
**Benenson,M.** 171  
**Benenson,M. W.** 242, 251  
**Bentley,T.** 219  
**Bentley,T. B.** 8, 313, 402, 449  
**Benton,B.** 411  
**Benton,B. J.** 412, 413  
**Berenzon,D.** 11  
**Bergmann-Leitner,E.** 12

- Bergmann-Leitner,E. S.** 13
- Berkower,I.** 9
- Berman,J.** 233, 237
- Bernstein,W. B.** 14
- Berti,R.** 15, 27, 44, 265, 267, 274, 383, 471
- Beyrer,C.** 242
- Bhat,K. R.** 413
- Bhattacharjee,A.** 353
- Bhattacharjee,A. K.** 5, 30, 38, 39, 86, 272, 314, 315, 355, 373
- Bi,S.** 77, 387
- Bi,S. G.** 316, 388
- Billings,E. M.** 9
- Binder,S.** 208
- Binn,L.** 459
- Binn,L. N.** 55
- Biomndo,K.** 432
- Birdsall,B.** 64
- Birx,D.** 292
- Birx,D. L.** 25, 31, 32, 34, 42, 80, 112, 183, 184, 194, 209, 236, 242, 251, 283, 389
- Blackman,M. J.** 64
- Blair,P. L.** 122
- Blanchard,J.** 422
- Blanchard,T. J.** 144
- Blanchard,T. W.** 391, 392
- Blaney,J. E.** 78, 262
- Blattner,F. R.** 259
- Blazes,D. L.** 40
- Bliese,P. D.** 20, 312

- Bliese,Paul D.** 284  
**Block,K.** 322  
**Bodhidatta,D.** 115, 126  
**Bodhidatta,L.** 317, 405, 440  
**Bodison,S. A.** 58  
**Bodo,M.** 8, 16, 235  
**Bolan,C.** 149  
**Bolan,C. D.** 17, 18, 19, 124  
**Bornemann,A.** 143  
**Borschall,R. H.** 355  
**Borschel,R.** 353  
**Bosio,C. F.** 318  
**Bounngaseng,A.** 443  
**Bowden,R. A.** 321  
**Bowden,Robert A.** 319  
**Bowman,P. D.** 429  
**Bradley,W. P.** 164  
**Braga,I. A.** 179  
**Braisted,J.** 16  
**Braitman,D.** 237  
**Branch,O. H.** 6, 221  
**Branson,B. M.** 164  
**Breiman,R. F.** 89  
**Britt,T. W.** 20  
**Britt,Thomas W.** 281, 285  
**Broder,C.** 47  
**Brodine,S. K.** 21, 40  
**Brogdon,W. A.** 179

- Brown,A. E.** 34, 112, 150, 171, 183, 184, 241, 242, 251, 382  
**Brown,Araceli** 287  
**Brown,J.** 320  
**Brown Jr,J.** 300  
**Brown Jr,Jeremiah** 286, 295  
**Brown,K.** 144  
**Brown,K. H.** 307  
**Browning,J. N.** 124  
**Buapunth,P.** 150  
**Buchbinder,S. P.** 152  
**Bucher,J. R.** 430  
**Buchmann,E. V.** 261  
**Bujnicki,J. M.** 22, 75  
**Bunger,R.** 8, 219, 234, 235, 447, 448  
**Burans,J. P.** 426  
**Burge,B.** 140, 224  
**Burge,R.** 179, 210, 225, 422  
**Burgess,T. H.** 236  
**Burke,D.** 326  
**Burke,D. S.** 160, 327  
**Burke,M. E.** 412  
**Burkhalter,K.** 205  
**Burkhalter,K. L.** 158  
**Burkom,H.** 133  
**Burland,V.** 259  
**Burnouf,T.** 453  
**Burns,A. R.** 321  
**Burton,D. R.** 141

- Butcher,G.** 144  
**Butini,S.** 72  
**Byrd,W.** 23, 24, 45  
**Cabada,M.** 322  
**Cabezas,M. G.** 303, 473  
**Cable,H. C.** 26  
**Cam,P. D.** 95, 317  
**Campiani,G.** 72, 213  
**Campos,N.** 322  
**Canas,L.** 322  
**Cannon,T.** 195, 199  
**Cao,Y. M.** 211  
**Caoili,G.** 348  
**Capacio,B. R.** 376  
**Caridha,D.** 22, 324  
**Carr,J. K.** 25, 42, 209, 242, 251, 395  
**Carrion,G.** 25, 395  
**Carroll,M. C.** 9  
**Carter,C. S.** 17  
**Carter,V.** 26  
**Carucci,D. J.** 122  
**Caser,R. A.** 324  
**Casey,D.** 39  
**Casper,C.** 40  
**Cassels,F.** 348  
**Cassels,F. J.** 23, 24, 39, 45, 105  
**Castro,Carl Andrew** 284, 298  
**Catalanotti,B.** 213

- Caudill,J.** 76  
**Cocco,S. A.** 18, 19  
**Celentano,D. D.** 242  
**Celum,C. L.** 280  
**Cerasoli,D. M.** 375  
**Cermelli,C.** 27  
**Ceruti,R. P.** 157  
**Chaicumpa,W.** 123  
**Chaisri,U.** 123  
**Chaisuriya,P.** 248  
**Chakraborty,N.** 77  
**Chalom,I.** 218  
**Chan,A.** 361  
**Chan,C.** 416  
**Chanan-Khan,A.** 28, 447  
**Chanan-Khan,A. A.** 448  
**Chanbancherd,P.** 183, 251  
**Chandranoi,K.** 126, 129, 378  
**Chantakulkij,S.** 184  
**Charles,B. G.** 59  
**Chatterjee,A.** 199  
**Chattopadhyay,S.** 357  
**Chauca,G.** 25, 322  
**Chauvancy,G.** 174  
**Chavchich,M.** 369  
**Chen,H.** 41  
**Chen,N.** 29, 323  
**Chen,R. W.** 408

- Chen,Y.** 91  
**Cheng,Q.** 29, 323  
**Cherin,E.** 146  
**Cheruku,S. R.** 30  
**Chiang,P. K.** 22, 75, 91, 92, 324  
**Chiasserini,L.** 213  
**Childs,J.** 415, 416  
**Childs,R. W.** 17  
**Chilukuri,N.** 325  
**Chinaworapong,S.** 150  
**Chiu,J.** 183  
**Chongsa-nguan,M.** 123  
**Chotani,R. A.** 177  
**Chouriyagune,C.** 255  
**Chowdhury,I. H.** 31, 32  
**Christopher,E.** 33  
**Chuanak,N.** 377  
**Chuenchitra,T.** 34, 112, 183, 184, 382  
**Chunsuttiwat,S.** 307  
**Clark,C. R.** 376  
**Clark,M.** 381  
**Clark,M. G.** 35, 396, 444  
**Clarkson,Donna R.** 295  
**Clawson,R. E.** 345  
**Cochrane,D. G.** 394  
**Cohen,J.** 1, 71, 231  
**Cohen,R.** 447  
**Cohn,L.** 195

- Coldren,R.** 432, 461
- Coldren,Rodney** 460
- Coleman,R. E.** 36, 99, 108, 115, 125, 126, 185, 202, 210, 211, 224, 374, 423, 458, 476
- Collins,W. E.** 443
- Collis,T.** 280
- Colon,A. F.** 415
- Concannon,S. P.** 37
- Conry-Cantilena,C.** 124
- Cook,P.** 38
- Cooke,B. M.** 446
- Cooley,J. D.** 96
- Coombs,R. W.** 280
- Cooper,R. D.** 69
- Corey,L.** 40
- Cornet,J. P.** 172
- Cornum,R. L.** 187
- Coster,T. S.** 102
- Coutinho,R. A.** 152
- Cox,J.** 292
- Cox,J. H.** 34, 42
- Coyne,P. E.** 338
- Crabtree,M.** 427
- Craig,L. G.** 68
- Crampton,A. L.** 136
- Cross,A. S.** 38, 39
- Crowe,Michael** 302
- Crowe,T. D.** 37
- Crum,N. F.** 40

- Cuchi,P.** 395  
**Cui,L.** 41  
**Culpepper,R. C.** 177  
**Cummings,D.** 326  
**Cummings,D. A.** 327  
**Cummings,J.** 144, 401  
**Cunningham,B.** 350, 452, 467, 468  
**Cunningham,B. S.** 274  
**Currier,J. R.** 42  
**Cuzon,G.** 453  
**D'Ambrosia J,M.** 27  
**Dalsgaard,A.** 95  
**Damu,A. G.** 120  
**Darden,J. M.** 184  
**Darling,A.** 259  
**Das,R.** 77, 261, 293, 316, 328, 387, 388  
**Dasch,G. A.** 198  
**Davachi,M. A.** 105  
**Dave,J. R.** 15, 43, 44, 147, 265, 266, 267, 274, 329, 330, 383, 408, 471  
**Dave,K.** 158, 205  
**Davis,J.** 139, 461  
**Davis,John** 460  
**Dawood,M. Y.** 384, 406, 420  
**De La Vega,P.** 122  
**De Lorimier,A. J.** 45, 105  
**De Souza,M.** 183, 242  
**De Souza,M. S.** 34, 112, 184, 251  
**De Witt,C. C.** 68, 164

- Debboun,M.** 69, 113, 125, 260
- DeFord,S. M.** 329
- Del Valle,P. L.** 308, 331, 390, 409, 433, 470
- Delaney,N.** 156
- Delaplaine,T.** 195
- Delfin,D.** 92
- Deng,W.** 259
- Derese,S.** 275, 276, 462
- Detrick,B.** 154
- Dhaliwal,R. S.** 46
- Dhokalia,A.** 261, 354
- Diaz,D.** 331, 390, 470
- Diaz,D. S.** 433, 434, 435
- Diaz-Mayoral,N.** 348
- DiCarlo,C.** 477, 478
- DiCarlo,Cheryl D.** 287
- Dicks,Ronald J.** 287
- Diem,G.** 146
- Diet,T. V.** 226
- Dietzmann,K.** 143
- Diggs,C. L.** 1
- Dluzewski,A. R.** 64
- Doctor,B. P.** 5, 73, 138, 215, 216, 325, 345, 375, 376, 396, 444
- Dolan,M. J.** 164
- Dondorp,A. M.** 446
- Dong,F.** 306
- Dong,M.** 47
- Dorn,A.** 30

- Douek,D. C.** 141
- Dow,G. S.** 48, 49, 130, 469
- Dowling,W. E.** 42
- Doyle,J.** 169
- Drabick,J. J.** 38
- Drysdale,B. E.** 39
- Dubick,M. A.** 50, 332
- Dubois,D. R.** 56, 102
- Dubois,M. C.** 1
- Duffy,P. E.** 51, 52, 53, 70, 339, 368
- Duhm,J.** 219
- Duliege,A. M.** 112, 183
- Dunachie,S.** 144
- Dunbar,C.** 33
- Duncan,E. H.** 13
- Dung,N. M.** 226
- Dunster,L. M.** 427
- Dunton,R.** 136
- Duong,Q. Y.** 62
- Dupuis,K.** 416
- Durden,A. V.** 278
- Duszenko,M.** 100
- Dutta,S.** 54, 333, 372
- Eamsila,C.** 59
- Echavarria,M.** 55
- Echevarria,C.** 426
- Eckels,K. H.** 1, 56, 57, 58, 94, 102, 232
- Edelman,R.** 58, 102, 103, 232

- Edman,J. D.** 349  
**Edsall,Peter** 291  
**Edstein,M. D.** 59  
**Eells,J. T.** 261  
**Efange,S. M.** 159  
**Egi,M.** 92  
**Eikarat,N.** 185, 210  
**Eitoku,C.** 247  
**El Habib,R.** 194, 292  
**Elbert,E.** 133  
**Eldefrawi,M. E.** 296  
**Elkins,W. R.** 262  
**Eller,M. A.** 236, 292  
**Ellgring,J. H.** 146  
**Elliott,M. R.** 60, 334  
**Elliott,P. J.** 15, 266, 383  
**Elliott,W. R.** 335, 419  
**Ellis,W.** 272  
**Ellis,W. Y.** 30  
**Elsayed,N. M.** 61  
**Emery,K.** 181  
**Emmerich,E.** 158, 205  
**Endy,P. T.** 456  
**Endy,T.** 326  
**Endy,T. P.** 160, 180, 252, 307, 327, 472  
**Endy,T. R.** 457  
**Eng,G.** 62  
**Engel,C. C.** 88

- Ennis,F. A.** 180, 472  
**Escolas,S.** 424  
**Escolas,S. M.** 336, 337  
**Essiet,II** 84  
**Estrada,C. H.** 322  
**Everaere,S.** 144  
**Excler,J. L.** 150  
**Eyase,F.** 461  
**Eyase,Fredrick** 460  
**Fahn,S.** 146  
**Faix,D.** 47  
**Faiz,M. A.** 161  
**Falade,C. O.** 79  
**Fan,Q.** 41  
**Fan,W.** 93, 132  
**Farber,D. L.** 118, 119, 250  
**Farese,A.** 39  
**Farhadi,A.** 31  
**Farrar,J. J.** 226  
**Farrugia,C.** 453  
**Fattorusso,C.** 72, 213  
**Faull,K.** 212  
**Fazal,Uzma** 460  
**Feaster,S. R.** 345  
**Fedorko,J. M.** 215, 376  
**Feeney,J.** 64  
**Fegeding,K.** 117, 214  
**Fernandez,B.** 205

**Fernandez-Prada,C. M.** 63

**Ferrari,G.** 80

**Figueredo,L.** 338

**Finke,J.** 236

**Fiorini,I.** 72

**Fisher,C. U.** 155, 156, 397

**Fitzpatrick,G. M.** 187

**Flanagan,K.** 144

**Fleck,S. L.** 64

**Fleming,E. R.** 338

**Fleming,S.** 454

**Fleming,S. D.** 65, 66, 104

**Fleming,Sherry D.** 288

**Florance,J. E.** 177

**Flournoy,W. S.** 67

**Fontana,J. L.** 219

**Forcino,D.** 16

**Forney,J. R.** 68, 270

**Fournier,G.** 259

**Fowler,E. V.** 29, 323

**Fox,S. V.** 473

**Frances,S. P.** 36, 69

**Frankel,S. S.** 112

**Fraser,S. L.** 21

**Freed,C.** 146

**Freilich,D.** 306

**Fried,M.** 52, 53

**Friedman,J. F.** 70, 339, 368

- Friendlander,A. M.** 389  
**Fryauff,D. J.** 198, 237  
**Fuller,J.** 188  
**Gachoya,J.** 427  
**Gaeta,A.** 213  
**Gagen,D.** 321  
**Gainsborough,M.** 226  
**Galeano,A.** 395  
**Galland,G. G.** 443  
**Gamero,M. E.** 322  
**Ganjar,A.** 237  
**Gantz,D. T.** 177  
**Garcia,G. E.** 340, 345  
**Garcon,N.** 71  
**Gardner,R. C.** 201  
**Garner,R. P.** 183  
**Gasior,M.** 279  
**Gasser,R. A.** 153  
**Gasser,R. A. Jr.** 68, 145, 270  
**Gaydos,J.** 459  
**Gaydos,J. C.** 90  
**Gbotosho,G. O.** 79  
**Geller,D. A.** 250  
**Gemma,S.** 72  
**Genovese,R.** 381  
**Gerena,L.** 79, 186, 272, 341, 342, 369  
**Geter-Douglass,B.** 279  
**Gettayacamin,M.** 358, 391, 392

- Geyer,J. A.** 253, 272  
**Gianella,A.** 395  
**Gilbert,S. C.** 144  
**Gilmore,L. E.** 78, 262  
**Ginalski,K.** 75  
**Glass,J.** 62  
**Glenn,G. M.** 389  
**Glickman,R. D.** 335  
**Godkar,P.** 73  
**Goedert,J. J.** 152  
**Goldberg,M. B.** 259  
**Goldblum,S. E.** 39  
**Gomez,C.** 416  
**Gomez-Lobo,R.** 473  
**Gonzalez,J. P.** 172, 174  
**Good,M. F.** 87  
**Goodwin,C. W. Jr.** 187  
**Gorbounov,N. V.** 343  
**Gorbunov,N. V.** 61, 74, 344  
**Gordon,R. K.** 73, 75, 340, 345, 425  
**Gormas,J. F.** 85  
**Gothard,P.** 144  
**Gottfried,K.** 205  
**Gottfried,K. L.** 158  
**Gotze,O.** 234  
**Gould,L. J.** 261  
**Grado,Andres** 287  
**Grainger,M.** 122

**Gramiccia,M.** 356

**Granelli-Piperno,A.** 236

**Grange,P. A.** 39

**Gray,M.** 271

**Green,S.** 180, 307, 472

**Greenwalt,T. J.** 85

**Greig,N. H.** 375

**Grieder,F.** 47

**Griffiths,E. M.** 375

**Grimes,J.** 194

**Grissom,C. K.** 269

**Gross,G. W.** 168

**Gu,Z.** 346

**Gu,Z. F.** 347

**Guebre-Xabier,M.** 11

**Guerry,P.** 399

**Guevara,A.** 25

**Gupta,R. K.** 69

**Gurunathan,S.** 292

**Guzman,H.** 200

**Gwinn,W.** 76

**Hacker,A.** 324

**Hadfield,T.** 225

**Hadfield,T. L.** 63, 355

**Haigh,J. R.** 345

**Hale,S.** 140

**Hale,S. L.** 266, 471

**Hall,E. R.** 45, 105, 348

- Hall,S.** 204, 424  
**Hall,S. W.** 360  
**Haller,R. M.** 303  
**Hamilton,T.** 412, 413  
**Hammamieh,R.** 77, 261, 328  
**Hammett,M.** 306  
**Hammond,S.** 389  
**Handrigan,M. T.** 313, 449  
**Hanley,K. A.** 78, 262  
**Hannan,C. M.** 144  
**Hanson,C. T.** 78  
**Hansukjariya,P.** 358, 391, 392  
**Happi,T. C.** 79  
**Harman,R.** 415, 416, 417  
**Harre,J. G.** 217  
**Harrington,L. C.** 318, 349  
**Harris,M. E.** 80  
**Harris,R. A.** 187  
**Hartell,M. G.** 433  
**Hartings,J. A.** 81, 82, 83, 268, 350, 351, 421, 452, 467, 468, 471  
**Hartman,A. B.** 84  
**Hatcher,R.** 419  
**Hawkes,W. C.** 307  
**Hawley,W. A.** 221  
**Hay,S. I.** 432  
**Hayashi,H.** 123  
**Haynes,J. D.** 1, 54, 122, 333, 372, 386  
**He,X.** 186

- Healey,P.** 208  
**Held,T. K.** 39  
**Henchal,E.** 93  
**Henchal,E. A.** 56  
**Henretig,F. M.** 177  
**Heppner,D. G.** 1, 68, 71, 87, 144, 218, 231  
**Herndon,Thomas M.** 289  
**Herrera,S.** 445  
**Hess,J. R.** 85, 187  
**Heydenreich,M.** 275, 276, 462  
**Hicks,R. P.** 86  
**Hien,B. T.** 317  
**Hierholzer,J.** 25  
**Hijar,G.** 182  
**Hill,A. V.** 144  
**Hill,C.** 194  
**Hill,H.** 385  
**Hill,H. R.** 85  
**Hillier,C. J.** 352  
**Hillier,S.** 199  
**Hinkle,P. M.** 212  
**Hirunpetcharat,C.** 87  
**Hisaeda,H.** 2, 211  
**Hmel,P.** 417  
**Hmel,P. J.** 106, 134, 464  
**Ho,C.** 252  
**Hochberg,L.** 208, 294, 407  
**Hoge,C. W.** 88

- Hoke,C. H.** 160  
**Hoke,C. H. Jr.** 56, 102, 232  
**Holcomb,J. B.** 187  
**Holder,A. A.** 64, 122, 304  
**Holland,D.** 336, 337, 424  
**Holmberg,J.** 415  
**Holmes,W.** 413  
**Hooks,J. J.** 154  
**Hoover,D.** 353  
**Hoover,D. L.** 63, 277, 314, 355  
**Hossain,M. A.** 89, 161  
**Hotchkiss,E. R.** 474  
**Hou,P.** 37  
**Houchens,D. M.** 418  
**Houng,H. H.** 431, 459  
**Houng,H. S.** 232  
**Hsieh,D. A.** 90  
**Hua,D. H.** 91, 92  
**Huanca,N.** 322  
**Huang,C. H.** 120  
**Huang,N.** 326  
**Huang,N. E.** 327  
**Huang,X.** 354  
**Huang,X. D.** 91  
**Huang,Y.** 375  
**Huber,C.** 38  
**Hudson,T.** 79  
**Hudson,T. H.** 49, 315, 373

- Hughes,J. P.** 280  
**Hunt,A.** 205  
**Hur,R. S.** 216  
**Hurd,H.** 26  
**Hurtle,W.** 93  
**Hynes,N. A.** 177  
**Inlao,I.** 36, 126  
**Innis,B. L.** 55, 56, 58, 76, 94, 102, 103, 160, 188, 232  
**Ioannidis,J. P.** 152  
**Ionin,B.** 436  
**Irizarry,R.** 326, 327  
**Irungu,B.** 275  
**Isenbarger,D. W.** 84  
**Ishida,H.** 475  
**Ito,S. I.** 21  
**Ittiweerakul,M.** 391  
**Iversen,J.** 95  
**Iwu,M. M.** 33, 101, 159, 356  
**Izadjoo,M.** 314, 353  
**Izadjoo,M. J.** 355  
**Jackson,J. E.** 356  
**Jacobson,S.** 27  
**Jacobus,D. P.** 369, 434, 435  
**Jagodzinski,L. L.** 96  
**Jaichaplor,B.** 374  
**Jamieson,B. D.** 152  
**Januskiewicz,A. J.** 347  
**Januszkiwicz,A.** 309, 310

- Januszkiewicz,A. J.** 346
- Jenwithisuk,R.** 423
- Jeong,H. D.** 97
- Jeong,J. B.** 97
- Jett,M.** 77, 261, 293, 303, 316, 328, 354, 387, 388, 436, 437, 438
- Jex,Steve M.** 98
- Jha,T. K.** 233
- Jiang,J.** 357, 416
- Jiang,S.** 358
- Jin,L. W.** 91
- Jin,X.** 410, 411
- Jin,X. N.** 359
- Jittiwutikarn,J.** 242
- Jittmitraphap,A.** 457
- Johnson,D.** 204, 362
- Johnson,D. E.** 360, 451
- Johnson,J.** 205
- Johnson,T. O.** 46
- Joines,A. D.** 85
- Jones,C.** 292
- Jones,F.** 348
- Jones,J. W.** 99, 108, 126, 129, 222, 223, 224, 318, 349, 361, 363, 374, 378, 458, 476
- Jones,T. R.** 237
- Jongsakul,K.** 254, 255, 256, 257
- Juang,Y. T.** 238, 243, 244, 245, 370, 450
- Jugsudee,A.** 241
- Jun,L. J.** 97
- Junge,K.** 233

- Junlananto,P.** 241  
**Juranic,Z.** 166  
**Kabututu,Z.** 100  
**Kager,P. A.** 6  
**Kain,K. C.** 68, 182  
**Kalambaheti,T.** 123  
**Kalayanarooj,S.** 160, 180, 472  
**Kamat,D.** 227  
**Kamboonruang,C.** 112  
**Kamhawi,S.** 190  
**Kamimori,G. H.** 269, 362  
**Kammer,G. M.** 60, 107, 334  
**Kamnaing,P.** 101  
**Kamwendo,D.** 181  
**Kane,M. P.** 261  
**Kaneko,A.** 445  
**Kaneko,O.** 247, 423, 445  
**Kanesa-Thasan,N.** 58, 102, 103, 232  
**Kantipong,P.** 257  
**Karatzas,C. N.** 375  
**Kardec,A.** 179  
**Kariuki,S. K.** 221  
**Karpel-Massler,G.** 66, 104  
**Kaslow,D.** 6  
**Kaslow,D. C.** 221  
**Kathcart,A. K.** 272  
**Katinger,H.** 141  
**Katz,D. E.** 105

- Kautz,M.** 364, 414, 465  
**Kawamoto,F.** 181  
**Kawazu,S.** 100  
**Ke,C. H.** 120  
**Keil,D.** 218  
**Keister,D. B.** 393  
**Kelley,P. W.** 177  
**Kelly,D. J.** 198  
**Kelly,W.** 362  
**Kendall,A.** 424  
**Kendall,A. P.** 336, 337  
**Kendall,N. T.** 406  
**Kengluecha,A.** 108, 126, 363, 374  
**Kennedy,A.** 106, 134, 417  
**Kerdpanich,A.** 252  
**Kerst,A.** 205  
**Kespichayawattana,W.** 248  
**Kester,K. E.** 1, 68, 144, 218, 231, 401  
**Ketchum,L. H.** 197, 464  
**Kettleborough,C. A.** 64  
**Khalil,M.** 296  
**Khamboonruang,C.** 183  
**Khan,A. S.** 296  
**Khan,I. A.** 33, 159  
**Khan,I. U.** 107  
**Khanh,V. C.** 226  
**Khatun,M.** 89  
**Khaimanee,N.** 36, 125, 126

- Khrimian,A.** 113  
**Khuntirat,B.** 41, 108, 126, 210  
**Kiang,J. G.** 109, 110, 111, 299  
**Kiang,Julianne G.** 290  
**Killgore,W.** 364  
**Kim-Ahn,G. J.** 102  
**Kim,B.** 80  
**Kim,H.** 86  
**Kim,H. C.** 264  
**Kim,J.** 183  
**Kim,J. H.** 31, 32, 112, 194  
**Kim,M. S.** 97  
**King,A.** 102  
**King,A. D.** 76, 232  
**Kirches,E.** 143  
**Kirschfink,M.** 104  
**Kishimoto,A.** 2  
**Kitchell,B. E.** 46  
**Kitchener,S.** 426  
**Kittayapong,P.** 185, 230  
**Kitthawee,S.** 349  
**Klein,H. G.** 124  
**Klein,T. A.** 264  
**Kleinberg,M.** 39  
**Klun,J. A.** 113, 260  
**Klungthong,C.** 365  
**Kneen,R.** 226  
**Kochel,T.** 25

- Kocisko,D. A.** 59  
**Koenig,M.** 44, 367  
**Koenig,M. L.** 43, 49, 114, 278, 303, 330, 366  
**Kolavic-Gray,S. A.** 55  
**Kolczak,M. S.** 221  
**Kollaritsch,H.** 162  
**Kollars,T. M.** 116  
**Kollars,T. M. Jr.** 36, 115  
**Kollmar,E.** 356  
**Komisar,J.** 117, 214  
**Komisar,J. L.** 97  
**Konongoi,S. L.** 427  
**Koplovitz,I.** 265, 376, 408  
**Korioth-Schmitz,B.** 141  
**Koritschoner,N. P.** 250  
**Korman,A.** 139  
**Korolev,S.** 117, 214  
**Kortepeter,M. G.** 177  
**Koser,B. W.** 86  
**Kotecka,B. M.** 202  
**Kotecka,Barbara** 398  
**Kozar,M. P.** 433, 434, 435  
**Krairojananan,P.** 126  
**Kramer,M.** 113  
**Krauss,M.** 88  
**Krauss,M. R.** 301  
**Krichmar,J.** 204  
**Krieg,A. M.** 87, 248

- Krishnamurthy,G.** 47
- Krishnan,S.** 110, 118, 119, 156, 250, 367, 397
- Krivulka,G.** 141
- Krzych,U.** 11, 218, 231, 442
- Kubata,B. K.** 100
- Kubinyi,G.** 16
- Kumar,A.** 155
- Kumar,S.** 386
- Kuo,P. C.** 120
- Kurazono,H.** 123
- Kurtis,J. D.** 70, 339, 368
- Kuschner,R.** 459
- Kyle,D.** 166, 461
- Kyle,D. E.** 29, 79, 130, 167, 272, 323, 341, 342, 369, 392
- Kyle,Dennis** 460
- Kyttaris,V.** 121
- Kyttaris,V. C.** 370
- Laguna,A.** 322
- Laguna-Torres,V.** 25
- Laguna-Torres,V. A.** 395, 426
- Lai,N. V.** 317
- LaJambe,C. M.** 371
- Lal,A.** 466
- Lal,A. A.** 6, 221
- Lalitha,P. V.** 372
- Lambert,L. E.** 393
- Lambris,J. D.** 66
- Lan,N. P.** 317

- Lanar,D.** 218  
**Lanar,D. E.** 6, 54, 70, 221, 333, 339, 352, 368, 372, 466  
**Landau,N. R.** 32  
**Laboonchai,A.** 270  
**Laskar,R.** 377  
**Laukanen,T.** 263  
**Laverman,P.** 447  
**Lazarus,M.** 100  
**Le Roch,K. G.** 122  
**Leader,H.** 5, 138  
**Lee,E.** 422  
**Lee,J.** 47  
**Lee,K. H.** 120  
**Lee,P.** 130, 439  
**Lee,P. J.** 315, 373  
**Lee,R. B.** 90  
**Lee,S. J.** 374  
**Leelawongtawon,R.** 123  
**Leelayoova,S.** 239  
**Leepitakrat,W.** 108, 125, 126  
**Leitman,S. F.** 17, 18, 19, 124, 149  
**Leitner,T.** 263  
**Leitner,W. W.** 13  
**Leng,Y.** 411, 412  
**Lennette,E. T.** 128  
**Lenz,D. E.** 345, 375, 376  
**Lerdthusnee,K.** 36, 108, 125, 126, 129, 174, 378  
**Letellier,L.** 11, 442

- Letvin,N. L.** 141  
**Leung,K. P.** 37, 165  
**Levin,L.** 127  
**Levin,L. I.** 128  
**Lewis,E. E.** 136  
**Lewis,M.** 377  
**Lewis,M. D.** 129, 378  
**Lewis,M. G.** 141, 249  
**Lewis,S. H.** 133  
**Li,C.** 264  
**Li,K.** 136  
**Li,Q.** 470  
**Li,Q. G.** 130, 379, 380, 439, 469  
**Li,Y.** 301  
**Li,Z.** 272, 315, 373, 411  
**Li,Z. W.** 359  
**Liao,W. J.** 271  
**Libraty,D.** 456  
**Libraty,D. H.** 180, 472  
**Liebes,L.** 28, 447, 448  
**Lim,A.** 358  
**Lin,A. J.** 120  
**Lin,B. C.** 131  
**Lindler,L.** 93  
**Lindler,L. E.** 84, 132, 354  
**Ling,G.** 267, 422  
**Linthicum,K. J.** 36, 222, 223  
**Lippert,L.** 416

- Lippert,L. E.** 85, 415  
**Lisgarten,J.** 276  
**Little,S. F.** 389  
**Litz,Brett T.** 282  
**Liu,G. J.** 222, 223  
**Liu,Y. C.** 397  
**Liyala,P.** 275, 276, 461, 462  
**Liyala,Pamela** 460  
**Lloyd,R. L.** 212  
**Loan,H. T.** 226  
**Lockridge,O.** 215  
**Lombardo,J.** 133  
**Long,C. A.** 304, 393, 428  
**Long,C. J.** 106, 134, 464  
**Long,J. B.** 278, 381  
**Looareesuwan,S.** 162, 457  
**Loomis-Price,L. D.** 194  
**Lopez-Sanchez,M.** 272  
**Loschen,W.** 133  
**Louisiriotchanakul,S.** 382  
**Louisirirojchanakul,S.** 34  
**Loveday,J.** 300  
**Lovelace,K.** 135  
**Lu,M.** 386, 471  
**Lu,P. Y.** 299  
**Lu,X. C.** 81, 268, 274  
**Lu,X. C. M.** 383, 467  
**Lu,X. M.** 267, 452, 468

- Lucchetti,A.** 280  
**Luccioli,S.** 9  
**Luckhart,S.** 136  
**Ludwig,G.** 328  
**Ludwig,G. V.** 103  
**Ludwin,S. K.** 27  
**Luetkemeier,M. J.** 269  
**Lumley,L. A.** 384, 406, 420  
**Lund,B. J.** 137, 300  
**Lund,D. J.** 137, 477, 478  
**Lund,David J.** 286, 291, 297  
**Lund,J.** 320  
**Luo,C.** 138, 216, 376, 444  
**Lyon,J. A.** 1, 304, 305, 352  
**Ma,L.** 402  
**Ma,W.** 168  
**Ma,W. H.** 207  
**Maayan,S.** 80  
**Mabinda,E.** 427  
**Macaluso,K. R.** 139  
**MacDonald,V.** 417  
**MacDonald,V. W.** 385, 418  
**Maeda,N.** 165  
**Magill,A. J.** 68, 227, 270, 271, 426  
**Magruder,S.** 133  
**Mahajan,B.** 386  
**Mahanonda,R.** 4  
**Mahapibul,P.** 224

- Mair,C.** 368  
**Maiti,S.** 30  
**Maldonado,F.** 322  
**Malia,J. A.** 164  
**Malkin,E. M.** 428  
**Malla,S.** 377  
**Malloy,M. A.** 157  
**Mammen,M. P.** 365  
**Mammen,P. M.** 456  
**Maneechai,N.** 210  
**Mangiafico,J. A.** 103  
**Mani,S.** 77, 316, 387, 388  
**Manlucu,L. R.** 78  
**Margaryan,K.** 113  
**Marin,R.** 140  
**Mark,B.** 406  
**Marouino,W.** 182  
**Marovich,M.** 292  
**Marovich,M. A.** 236  
**Martin,S.** 432  
**Martin,S. K.** 100  
**Martin,S. R.** 64  
**Martinez,R. S.** 187  
**Martins-Green,M.** 207  
**Mascola,J.** 112  
**Mascola,J. R.** 21, 141  
**Mascola,M.** 292  
**Mascorro,C. N.** 41

- Mason,C.** 377, 399, 431, 441, 461
- Mason,C. J.** 42, 317, 405, 440
- Mason,Carl** 460
- Mason,G.** 124
- Mastellos,D.** 66
- Matsumoto,Y.** 2
- Matyas,G.** 311
- Matyas,G. R.** 142, 389
- Mau,B.** 259
- Mawrin,C.** 143
- Maxwell,D. M.** 138, 376
- May,L.** 62
- Mayer,W.** 418
- Mayerchak,S.** 320
- Mayhew,G. F.** 259
- Mayne,M.** 27
- Mbaisi,A.** 461
- Mbaisi,Abigael** 460
- Mbui,J.** 407
- McBride,J. S.** 1
- McCarthy,K.** 426
- McClain,D. E.** 110
- McClain,David E.** 290
- McConkey,S. J.** 144
- McCutchan,F.** 263, 283
- McCutchan,F. E.** 21, 42, 80, 170, 242, 251
- McDaniel,P.** 173, 271
- McFaul,S.** 415, 417

- McFaul,S. J.** 343, 344  
**McKenzie,F. E.** 145  
**McKissic,D.** 72, 213  
**McLeod,R.** 151  
**McLinden,R.** 112  
**McManus,A. T.** 187  
**McNeil,J.** 112, 283  
**McNeil,J. G.** 183, 209, 242  
**McQueen,C. E.** 45, 105  
**McRae,C.** 146  
**Medhekar,R.** 215  
**Medina,W.** 406  
**Meledandri,C.** 417  
**Melendez,V.** 308, 331, 390, 409, 433, 434, 435, 470  
**Mendez,J.** 338  
**Mendis,C.** 77, 293  
**Menking,D.** 430  
**Mense,M.** 140, 353  
**Merritt,T. M.** 164  
**Meshnick,S. R.** 181  
**Messer,S. C.** 88  
**Metcalfe,D. D.** 9  
**Metselaar,J. M.** 447  
**Meyer,L.** 152  
**Meyerhoff,J. A.** 212  
**Meyerhoff,J. L.** 114, 366, 406, 420, 473  
**Meyermann,R.** 143  
**Meyers,T. M.** 170

- MibeI,E. K.** 229
- Michael,N.** 207
- Michael,N. L.** 96, 152, 164
- Michael,R. A.** 150
- Midboe,E. G.** 384
- Midiwo,J. O.** 275, 276, 462
- Mikol,Y. B.** 177
- Milhous,W.** 79
- Milhous,W. K.** 166, 167, 380, 434, 435
- Miller,B. R.** 427
- Miller,J. A.** 225
- Miller,L. H.** 393, 428
- Miller,M. J.** 195
- Miller,R. S.** 68, 145, 161, 162, 172, 173, 174, 181, 270, 271, 358, 374, 391, 392, 400
- Milosevits,J.** 235, 311, 447, 448
- Mioduszewski,R.** 430
- Mirel,L. B.** 221
- Mitchell,J.** 367
- Mitchell,J. P.** 156, 157, 243
- Mitchell-Raymundo,F.** 55
- Miura,K.** 393, 428
- Moch,J. K.** 54, 122, 333, 386
- Moch,K.** 372
- Mocny,M.** 394
- Modrow,H. E.** 187
- Moffett,J. R.** 15, 43, 44, 147, 266, 267, 329, 330
- Mog,S. R.** 24
- Moghimi,S. M.** 148

**Molchany,Jerome W.** 297

**Molina,C. M.** 37

**Monath,T. P.** 426

**Moncada,V.** 149

**Mones,E.** 86

**Mongan,P. D.** 219, 234, 385

**Monkanna,T.** 36, 108, 125, 126

**Montano,S.** 25

**Montano,S. M.** 203, 322, 395

**Montefiori,D. C.** 141

**Montes,A.** 322

**Montgomery,L. D.** 16

**Montoya,O.** 395

**Montoya,Y.** 182

**Moorad,D. R.** 340

**Moorthy,V. S.** 144

**Moran,A. V.** 147, 329

**Moran,K. A.** 68

**Morgan,P. A.** 150

**Morgan,W. D.** 64

**Morris,L.** 170

**Morrissette,C.** 16

**Mosebar,R. H.** 187

**Mosquera,C.** 25

**Mostashari,F.** 177

**Moul,J. W.** 191

**Mtalib,R.** 70, 339, 368

**Muderhwa,J. M.** 142

- Muench,S. P.** 151  
**Muggia,F. M.** 28, 447, 448  
**Mulherin,S. A.** 152  
**Muller,A.** 143  
**Munday,C. J.** 100  
**Munger,K.** 127  
**Munger,K. L.** 128  
**Munghin,M.** 239  
**Mungviriya,S.** 108, 125, 126  
**Muratova,O.** 428  
**Muratova,O. M.** 393  
**Murphy,A.** 321  
**Murphy,B. R.** 78, 262  
**Murphy,G. S.** 237  
**Murphy,M. R.** 169  
**Murphy,W. J.** 207  
**Murray,C. K.** 68, 153, 271  
**Mwangi,J.** 461, 462  
**Mwangi,Josphat** 460  
**Myers,T.** 381  
**Myers,T. M.** 35, 396  
**Myint,K. S.** 171  
**Nacci,V.** 72  
**Nace,D.** 443  
**Nagappan,P.** 466  
**Nagineni,C. N.** 154  
**Nagineni,S.** 154  
**Nagy,I.** 16

- Nahlen,B. L.** 6
- Naik,R.** 325
- Nakhasi,H. L.** 386
- Namatame,I.** 91
- Nambiar,M. P.** 119, 155, 156, 157, 244, 245, 250, 367, 397
- Nasci,R.** 205
- Nasci,R. S.** 158
- Nasveld,Peter** 398
- Nath,J.** 74, 309, 310, 343, 344
- Nau,M.** 296, 430
- Nau,M. E.** 249
- Navari,J. R.** 191
- Negrete,M.** 203
- Neill,R.** 328
- Nelson,J. H.** 187
- Neville,J. S.** 177
- Newcomer,R. L.** 105
- Newman,A. H.** 279
- Newton,P. N.** 220
- Nguyen,T.** 394
- Ngwendson,J. N.** 159
- Nichols,D.** 433
- Nichols,D. A.** 86, 272
- Nichols,R.** 426
- Niebuhr,D. W.** 301
- Nikolich,M.** 63
- Nikolich,M. P.** 355
- Nimmannitya,S.** 160

- Nirdnoy,W.** 399
- Nisalak,A.** 160, 180, 252, 326, 327, 365, 457, 472
- Nisaluk,A.** 89
- Nitayaphan,S.** 34, 150, 183, 184, 241, 242, 251, 382
- Nitkumhan,T.** 87
- Noedl,H.** 161, 162, 163, 400
- Noigamol,C.** 224
- Noker,P. E.** 379
- Noonai,A.** 239
- Norris,S. L.** 224
- Norwood,D.** 93
- Novellino,E.** 213
- Nozaki,T.** 100
- O'Brien,T. R.** 152
- O'Connell,R. J.** 164
- O'Donnell,K. P.** 296
- O'Guinn,M. L.** 374
- O'Neil,M.** 434
- O'Neil,M. T.** 403, 435
- O'Shaughnessy,T. J.** 168
- Oaks,E. V.** 455
- Oblitas,J. M.** 18, 19
- Ockenhouse,C. F.** 1, 68, 273, 401
- Odindo,A. O.** 229
- Oduola,A. M.** 79
- Ofula,V.** 427
- Ohrt,C.** 237, 392
- Okada,T.** 100

- Okamoto,M.** 165  
**Oketch-Rabah,H. A.** 276  
**Okunji,C. O.** 33, 159, 356  
**Oliver,C. K.** 85  
**Oliver,J. D.** 313, 402, 449  
**Oliver,J. E.** 260  
**Oliver,J. H.** 116  
**Olson,C.** 376  
**Olson,J. G.** 322, 395, 426  
**Onyango,C.** 427  
**Opal,S. M.** 38  
**Oppollo,M.** 70, 339  
**Oppollo,M. O.** 229  
**Oppenheim,J. J.** 207  
**Opsenica,D.** 166, 167  
**Orcutt,A. C.** 428  
**Orman,D. T.** 88  
**Osuna,F.** 461  
**Osuna,Finnley** 460  
**Owuor,B. O.** 229  
**Pakhomov,A. G.** 169  
**Palardy,J. E.** 38  
**Palmer,D. R.** 404  
**Palmer,R.** 276  
**Pamnani,M. B.** 402  
**Pancrazio,J. J.** 131, 168  
**Pandey,P.** 377  
**Pang,L. W.** 161

- Pankaskie,M. C.** 75  
**Pantaleo,G.** 152  
**Papathanasopoulos,M. A.** 170  
**Paranavitana,C.** 353  
**Pardhasaradhi,K.** 154  
**Parikh,K.** 325  
**Paris,R.** 171, 255  
**Parker,J. M.** 74  
**Parola,P.** 172, 173, 174, 258  
**Pasay,C.** 29  
**Pasay,C. M.** 323  
**Pastor,G.** 426  
**Pathan,A.** 144  
**Patience,T.** 170  
**Patowary,A. C.** 377  
**Pattanapanyasat,K.** 175, 236  
**Paulson,M.** 212  
**Pavlin,J.** 133, 394  
**Pavlin,J. A.** 176, 177  
**Payne,S. M.** 259  
**Peachman,K. K.** 178, 192, 389, 404  
**Pearce,F. J.** 16  
**Peck,C. A.** 128  
**Pekary,A. E.** 212  
**Pellerano,C.** 213  
**Perchellet,E. M.** 91  
**Perchellet,J. P.** 91  
**Perez,J.** 25

- Perez,M. T.** 203  
**Perich,M. J.** 179, 224  
**Perkins,L. E.** 397  
**Perna,N. T.** 259  
**Peter,M. G.** 275, 276, 462  
**Peter,R.** 474  
**Peters,J. M.** 29, 323  
**Peto,T.** 144  
**Petrali,J. P.** 412, 413  
**Petras,J.** 381  
**Petras,J. M.** 391  
**Phaknirat,P.** 382  
**Philbin,N.** 306  
**Phillips,B.** 191  
**Phonrat,B.** 112  
**Phulsuksombati,D.** 36, 115, 126  
**Phunkitchar,V.** 210  
**Picarima,H.** 237  
**Pichyangkul,S.** 4, 87, 123, 180, 248  
**Pickard,A. L.** 181, 271  
**Pickering,D.** 472  
**Pillai,D. R.** 182  
**Pilz,P.** 143  
**Pinelis,D.** 117, 214  
**Pitarangsi,C.** 377, 405  
**Pitisuttithum,P.** 112, 183  
**Piyaphong,S.** 405  
**Piyawatthanasakul,N.** 175

- Pizarro,J. M.** 406  
**Plunkett,G. 3rd** 259  
**Pocsfalvi,G.** 166  
**Poignard,P.** 141  
**Polavarapu,R. G.** 383  
**Polhemus,M. E.** 407  
**Polonis,V.** 112, 183  
**Polonis,V. R.** 32, 34, 47, 184, 382  
**Polotsky,Y.** 214  
**Polprasert,N.** 252  
**Polyak,C. S.** 55  
**Ponsa,N.** 185, 458, 476  
**Pontzer,C.** 436  
**Pontzer,C. H.** 437, 438  
**Portal,I. F.** 179  
**Porter,K.** 189  
**Pound,J. M.** 225  
**Powell,J.** 39  
**Powers,T. E.** 301  
**Pradier,A. L.** 455  
**Pratt,P. G.** 85  
**Price,R. A.** 147, 265, 274, 408  
**Prigge,S. T.** 22, 151, 186, 272, 315, 373  
**Pukrittayakamee,S.** 220  
**Purfield,A.** 181  
**Pusateri,A. E.** 187  
**Putnak,J. R.** 102, 103, 232  
**Putnak,R.** 56, 57, 188, 189

- Putnak,R. J.** 58  
**Quartucci,S.** 434  
**Quartucci,S. M.** 433, 435  
**Quiles,J. G.** 134  
**Quinnan,G. V. Jr.** 47  
**Quino-Ascurra,H. A.** 68  
**Radic,Z.** 138, 215  
**Rafferty,J. B.** 151  
**Rafi-Janajreh,A.** 6  
**Rafique,N. M.** 28  
**Rahardjo,E.** 198  
**Rahman,M. R.** 161  
**Raj,P. A.** 37  
**Ramalho-Ortigao,J. M.** 190  
**Ramirez,J. C.** 308, 409  
**Rao,C. N.** 191  
**Rao,M.** 178, 192, 193, 389, 404  
**Raoult,D.** 172, 173, 174  
**Rasameesoraj,M.** 220  
**Rasameesorat,M.** 400  
**Ratiwayanto,S.** 198  
**Rattendi,D.** 101  
**Ratto-Kim,S.** 183, 194  
**Ravindran,A.** 73  
**Raviprakash,K.** 217  
**Ray,P.** 359, 410, 411, 412, 413, 475  
**Ray,R.** 359, 410, 411, 412, 413  
**Ray,S. C.** 263

- Raychauduri,S.** 294  
**Razak,M. H.** 242  
**Razee,A.** 129, 378  
**Read,E. J.** 17  
**Rector,J. T.** 14  
**Redmond,D.** 204  
**Redmond,D. P.** 10, 360, 451  
**Reece,J. S.** 195  
**Reece,W. H.** 144  
**Rehak,N. N.** 18, 19  
**Reichardt,R.** 364, 465  
**Reichardt,R. M.** 414  
**Reid,T.** 7, 415, 416, 417  
**Reid,T. J.** 106, 134, 187, 196, 197, 418, 464  
**Rentas,F.** 357  
**Rentas,F. J.** 197, 415, 416, 417, 418  
**Rentmeister-Bryant,H.** 335  
**Rentmeister-Bryant,H. K.** 419  
**Rentmeister-Bryant,Heike** 287  
**Renzullo,P. O.** 209, 242  
**Reynolds,K. A.** 186  
**Reynolds,R.** 55  
**Ribeiro,J. M.** 190  
**Rice,D. W.** 151  
**Rice,J.** 306  
**Richards,A.** 416  
**Richards,A. L.** 198, 357  
**Richards,R. L.** 389

- Richie,T. L.** 237  
**Ridley,B.** 474  
**Rieckmann,K. H.** 59, 202  
**Rieckmann,Karl** 398  
**Riel,M. A.** 345  
**Rifat,S.** 39  
**Rizzardi,G. P.** 152  
**Rizzo,N. R.** 206  
**Robb,M.** 283, 292  
**Robb,M. L.** 31, 32, 42, 112, 184, 242  
**Roberts,M. T.** 144  
**Roberts,Z. J.** 45  
**Robertson,G. L.** 63  
**Robison,C. L.** 384, 406, 420  
**Rodkwamthook,W.** 126  
**Rolain,J. M.** 173  
**Rolli,M. L.** 81, 350, 351, 421, 422  
**Romeike,B.** 143  
**Roop,R. M. 2nd** 63  
**Rose,D. J.** 259  
**Rosen,D. H.** 6  
**Rosenberg,P. S.** 152  
**Rosenberg,R.** 136, 139  
**Rosenthal,D. S.** 413  
**Rosenthal,M.** 16  
**Rossi,C.** 103  
**Rostapshov,V.** 214  
**Rothman,A. L.** 180, 472

- Rothman,J.** 394  
**Rothwell,S.** 417  
**Rothwell,S. W.** 192, 193, 404  
**Roux,S. J.** 199  
**Rowland,L.** 204  
**Rowton,E. D.** 190  
**Roy,M.** 144  
**Rubertone,M. V.** 128  
**Rubio-Palis,Y.** 200  
**Ruchansky,D.** 203, 395  
**Rudnicki,W. R.** 75  
**Ruebush,T. K. 2nd** 182  
**Rueda,L. M.** 201, 264  
**Rugg,N.** 85  
**Rumbaut,R. E.** 321  
**Rungruang,T.** 2, 211  
**Rungruengthanakit,K.** 112  
**Runyen-Janecky,L. J.** 259  
**Russell,B. M.** 202, 423  
**Russell,Bruce** 398  
**Russell,D.** 146  
**Russell,K.** 25  
**Russell,K. L.** 203  
**Russi,J. C.** 203  
**Russo,M.** 204  
**Russo,M. B.** 10, 336, 337, 360, 424, 474  
**Rutherford,J. S.** 139  
**Ryan,J.** 205, 407

- Ryan,J. R.** 136, 158, 206, 294  
**Ryan,M. A.** 88, 177  
**Ryan,P. R.** 206  
**Rychlewski,L.** 75  
**Ryujin,D. T.** 269  
**Rzomp,K. A.** 41  
**Sa-Ard-lam,N.** 4  
**Saboori,A. M.** 425  
**Sacci,J. B.** 423  
**Sakarya,S.** 39  
**Sakkhachornphop,S.** 87  
**Sakolvaree,Y.** 123  
**Salata,J.** 415, 416, 417  
**Salcedo,R.** 207  
**Salem,M.** 92  
**Salminen,M.** 263  
**Samad,R.** 161  
**Samakoses,R.** 252  
**Samame,B.** 426  
**Sambor,A.** 112, 141  
**Samuel,W.** 154  
**Sanchez,J.** 395  
**Sanchez,J. L.** 25, 55, 203, 280, 322, 395, 426  
**Sanders-Buell,E.** 251  
**Sandvang,D.** 95  
**Sang,R. C.** 427  
**Sangjun,N.** 36, 126  
**Sangkharomya,S.** 241

- Sankovich,James M.** 287
- Sanogo,O. Y.** 174
- Sanogo,Y. O.** 172
- Santiago,S.** 336, 337, 424
- Sarantopoulos,G. P.** 208
- Sarasombath,S.** 236
- Sari,J.** 133
- Sateren,W. B.** 209
- Sato,Y.** 2
- Sattabongkot,J.** 2, 41, 185, 202, 210, 211, 247, 393, 423, 428, 445, 446, 458, 476
- Sattin,A.** 212
- Saul,A.** 393, 428
- Savarino,S.** 348
- Savay,S.** 8, 28, 234, 235, 447, 448
- Savini,L.** 213
- Saviolakis,G. A.** 384, 406, 420
- Savransky,V.** 117, 214
- Saxena,A.** 5, 72, 138, 213, 215, 216, 325, 375, 376, 396, 444
- Schantz,P.** 356
- Schech,J. M.** 225
- Scheiser,G.** 434
- Scherer,J. M.** 232
- Scherlach,C.** 143
- Schiavetta,A. M.** 217
- Schleich,S.** 99, 361
- Schleich,S. S.** 224
- Schlesinger,S.** 236, 292
- Schmaljohn,C.** 189

- Schneider,J.** 144  
**Schneider-Stock,R.** 143  
**Schooley,J. L.** 402  
**Schuitemaker,H.** 152  
**Schultz,S. M.** 265  
**Schulz,S. M.** 408  
**Schuschereba,S.** 320  
**Schuschereba,S. T.** 429  
**Schuschereba,Steven T.** 286, 295  
**Schuster,B.** 101  
**Schuster,B. G.** 159  
**Schuster,B. M.** 33  
**Schwartz,D. C.** 259  
**Schwartz,D. D.** 67  
**Schwenk,R.** 218, 231, 442  
**Schwenk,R. J.** 11  
**Scorneaux,B.** 30  
**Scott,D.** 348  
**Scott,R. M.** 160  
**Scott,T. W.** 318, 349  
**Seaman,M.** 141  
**Seelbaugh,J.** 134  
**Segawa,T.** 191  
**Sekowski,J. W.** 296, 430  
**Selvapandian,A.** 386  
**Serianni,R.** 219  
**Serichantalergs,O.** 317, 377  
**Serra,M.** 203, 395

**Sethabutr,O.** 431, 440, 441

**Shaffer,K. M.** 168

**Shaffer,R. A.** 21

**Shanks,Dennis** 460

**Shanks,G. D.** 432, 461

**Shao,Y.** 47

**Sharma,P.** 219

**Shea-Donohue,T.** 65, 66

**Shearer,T.** 390, 403, 409, 470

**Shearer,T. W.** 433, 434, 435

**Sheiser,G.** 435

**Sheppard,H. W.** 152

**Shi,L. S.** 120

**Shimabukuro,I.** 2

**Shiver,J. W.** 141

**Shoemaker,D.** 93

**Shrestha,C. D.** 377

**Shupp,J.** 436

**Shupp,J. W.** 437, 438

**Si,T. Z.** 380

**Si,Y. Z.** 130, 379, 439, 469

**Silamut,K.** 220, 446

**Silapong,S.** 431, 440

**Silva,T.** 416

**Silvera,P.** 249

**Silverstein,E. B.** 85

**Simasathien,S.** 252

**Simmons,M.** 217

- Simons,D. J.** 82
- Simpson-Herren,L.** 379
- Sinden,R. E.** 144
- Sindermann,H.** 233
- Sing,H.** 204, 371, 424
- Sing,H. C.** 10, 360, 451
- Singer,L. M.** 221
- Singharaj,P.** 150
- Singhasivanon,P.** 222, 223
- Sipos,M. L.** 147, 329
- Sirawaraporn,W.** 358
- Sirichaisinthop,J.** 68, 145, 210, 211
- Sirisinha,S.** 4, 248
- Sirisopana,N.** 171, 241, 242, 251
- Sirisriro,A.** 441
- Siriyanonda,D.** 220, 400
- Sithiprasasn,R.** 374
- Sithiprasasna,R.** 99, 222, 223, 224, 318, 361, 363
- Skillman,D. R.** 433, 434, 435
- Smith,C. W.** 321
- Smith,G. L.** 144
- Smith,K. S.** 434, 435
- Smith,M. A.** 406
- Smith,W. J.** 413
- Smoak,B.** 461
- Smoak,Bonnie** 460
- Sniegoski,C.** 133
- Solaja,B. A.** 166, 167

- Solberg,V. B.** 225  
**Soldan,S. S.** 27  
**Solomon,J. S.** 368  
**Solomon,T.** 226  
**Somroop,S.** 123  
**Sondeen,J. L.** 187, 332  
**Song,G. H.** 264  
**Song,X. Q.** 62  
**Soriano,I.** 322  
**Sowunmi,A.** 79  
**Spiegelman,D.** 128  
**Srijan,A.** 95, 317, 405  
**Sriplienchan,S.** 242  
**Srivastava,S.** 191  
**Stamatos,N.** 39  
**Stamper,David A.** 297  
**Starkey,M. J.** 21  
**Starling,J.** 19  
**Stauffer,W. M.** 227  
**Steers,N.** 442  
**Stefanik,C.** 350, 452  
**Stehrenberger,M. A.** 360  
**Steinman,R.** 292  
**Steinman,R. M.** 236  
**Stenger,D. A.** 131, 168  
**Stephan,K.** 40  
**Stephan,K. T.** 21  
**Sterner,O.** 101

- Steurer,F.** 356
- Stewart,A.** 401, 443
- Stewart,V. A.** 228
- Stiegler,G.** 141
- Stoecker,M.** 422
- Stojilkovic,S. S.** 9
- Stoltenburg-Didinger,G.** 143
- Storm,G.** 447
- Stout,J. W.** 90
- Stoute,J.** 218
- Stoute,J. A.** 229, 231
- Stowers,A.** 2
- Stowers,A. W.** 211
- Strickman,D.** 62, 230, 240, 264
- Strickman,D. A.** 36
- Stuck,B. E.** 137, 169, 300, 320, 429, 477, 478
- Stuck,Bruce E.** 286, 287, 291, 295, 297
- Su,C. R.** 120
- Sudatis,A.** 239
- Sugimoto,A.** 165
- Sukumaran,D. K.** 37
- Sullivan,J. J.** 443
- Sullivan,J. S.** 443
- Summers,P. L.** 102
- Sun,P.** 218, 231
- Sun,W.** 58, 76, 103, 232, 236, 396, 404, 444, 459
- Sundar,S.** 233
- Suputtamongkol,Y.** 220

- Suriyanon,V.** 242  
**Sutthent,R.** 34  
**Suttinont,C.** 256  
**Suwanabun,N.** 2, 211, 247, 445  
**Suanarusk,R.** 446  
**Szebeni,J.** 8, 9, 28, 148, 234, 235, 332, 447, 448  
**Tabaku,L. S.** 313, 449  
**Tachibana,M.** 211  
**Tacket,C. O.** 102  
**Takumpanya,R.** 456  
**Tally,J. D.** 338  
**Tamminga,C. L.** 21  
**Tamura,M.** 91, 92  
**Tan-Ariya,P.** 239  
**Tane,P.** 101  
**Tang,D.** 45, 58, 232, 237  
**Tanifum,E. A.** 101  
**Tanskul,P.** 36, 126  
**Tapchaisri,P.** 123, 457  
**Tasker,S.** 292  
**Tasker,S. A.** 21, 40  
**Tassaneetrithep,B.** 236, 292  
**Taubman,M.** 249  
**Taylor,D. N.** 105  
**Taylor,P.** 138, 215  
**Taylor,W. R.** 237  
**Tchuendem,M. H.** 101  
**Teja-Isavadharm,P.** 220, 391, 400

**Telford,S. R.** 3rd 172, 173, 174

**Temereanca,S.** 82

**Tenbrock,K.** 238, 245, 250, 370, 450

**ter Kuile,F. O.** 6, 221

**Terrell,J.** 272

**Thach,D.** 131

**Thapinta,D.** 183

**Thathaisong,U.** 239

**Theodorou,I. D.** 152

**Thien,H. V.** 172

**Thisayakorn,U.** 160

**Thomas,A. G.** 40

**Thomas,Jeffrey L.** 98, 298

**Thomas,M.** 204

**Thomas,M. L.** 10, 474

**Thomas,S. J.** 240

**Thomas,S. M.** 79

**Thomson,S.** 430

**Thongcharoen,P.** 183

**Thongsen,N.** 241

**Thorne,D.** 204, 362, 371

**Thorne,D. R.** 10, 360, 451

**Thuita,L. W.** 100

**Thuroczy,G.** 16

**Thuy,T. T.** 226

**Tiensuwan,M.** 363

**Tipparaju,P.** 325

**Tippayachai,B.** 115

- Tjaden,J. A.** 14
- Tjitra,E.** 237
- Todd,C. W.** 466
- Tolnay,M.** 60, 238, 334
- Tomoda,H.** 91
- Tongtawe,P.** 123
- Topper,M.** 356
- Torii,M.** 2, 211, 247, 445
- Tortella,F.** 140
- Tortella,F. C.** 15, 43, 44, 81, 83, 147, 265, 266, 267, 268, 274, 279, 329, 330, 350, 351, 383, 408, 421, 422, 452, 467, 468, 471
- Torugsa,K.** 241
- Toulon,P. A.** 453
- Tovanabutra,S.** 242
- Triampon,A.** 150
- Trotta,R. F.** 14
- Trumpfheller,C.** 236
- Tsokos,C. G.** 155
- Tsokos,G.** 121, 454
- Tsokos,G. C.** 60, 65, 66, 104, 107, 110, 111, 118, 119, 155, 156, 157, 238, 243, 244, 245, 246, 250, 334, 367, 370, 397, 450
- Tsokos,George C.** 288, 289, 290
- Tsokos,M.** 246
- Tsopmo,A.** 101
- Tsuboi,T.** 2, 211, 247, 445
- Tsuji,N.** 2
- Tungtang,A.** 358
- Tuntichaivanich,C.** 171
- Turbyfill,K. R.** 455

- Turell,M.** 205  
**Turgeon,A. M.** 1  
**Ubol,S.** 365, 456  
**Udomsangpatch,R.** 202, 446  
**Underhill,B. A.** 26  
**Ungchusak,K.** 327  
**Ungehusak,K.** 326  
**Upadhyay,R.** 379, 439, 469  
**Urade,Y.** 100  
**Usawattanakul,W.** 457  
**Utaisincharoen,P.** 248  
**Vahey,M.** 49, 296, 383, 401, 430  
**Vahey,M. T.** 131, 249  
**Valdes,J. J.** 296, 430  
**Valente,P.** 47  
**Valenzuela,J. G.** 190  
**Valo,Lynn M.** 295  
**van Eijk,A. M.** 6  
**Van Gessel,Y.** 316, 356, 387, 388  
**Van Goor,F.** 9  
**van Hamont,J. E.** 105  
**Van Handenhove,M.** 1  
**Van Landeghem,F.** 143  
**VanCott,T.** 47  
**Vancott,T. C.** 141, 164, 389  
**Vandernoth,L.** 437, 438  
**VanderZanden,L.** 188  
**vanGessel,Y.** 135

- Vasilevsky,S.** 35  
**Vaughan,J. A.** 458, 476  
**Vaughan,W. M.** 45  
**Vaughn,D.** 55  
**Vaughn,D. W.** 56, 58, 102, 160, 188, 226, 240, 252, 472  
**Velandia,M.** 395  
**Velarde,L. C.** 15, 265, 408  
**Venkatesan,M.** 441  
**Venkatesan,M. M.** 259  
**Vennerstrom,J. L.** 30  
**Vento,T. J.** 459  
**Via,D.** 219  
**Vidal,C.** 68  
**Vinayaka,C. R.** 215  
**Vinetz,J. M.** 247  
**Vinoles,J.** 203  
**Viputtigul,K.** 239  
**Viputtikul,K.** 242  
**Vlahov,D.** 152  
**Vo,A. H.** 146  
**Vogel,P.** 117, 135  
**Von Deimling,A.** 143  
**Vortmeyer,A. O.** 9  
**Vorwerk,C.** 143  
**Voss,G.** 231  
**Vulule,J. M.** 221  
**Vuola,J. M.** 144  
**Wagner,E.** 217

- Wagstaff,J.** 452  
**Waitumbi,J. N.** 229  
**Wald,A.** 40  
**Wallace,M. R.** 21, 40  
**Wallace,M. W.** 418  
**Walsh,D. S.** 1, 59, 87, 175  
**Wanachiwanawin,W.** 175  
**Wang,L. X.** 39  
**Wang,X. F.** 31, 32  
**Wang,Y.** 402  
**Wangui,J.** 276, 461, 462  
**Wangui,Julia** 460  
**Wannaying,S.** 358  
**Ware,L. A.** 352, 372  
**Warke,V. G.** 110, 111, 119, 155, 156, 250, 367, 397  
**Warren,H. S.** 38  
**Wasi,C.** 34, 382  
**Wasserman,K.** 207  
**Wasserman,S. S.** 58, 102  
**Wasunna,K. M.** 42  
**Wasunna,M.** 407  
**Watanaveeradej,V.** 242, 251, 252  
**Watcharapichat,P.** 36, 126  
**Waterhouse,C.** 195  
**Waters,N. C.** 186, 253, 272, 275, 276, 315, 373, 461, 462  
**Waters,Norman** 460  
**Watkins,K.** 144  
**Watt,G.** 3, 254, 255, 256, 257, 258, 453, 463

- Watt,J. M.** 325
- Weaver,R. A.** 338
- Weber,M.** 96
- Webster,D.** 144
- Webster,H. K.** 175
- Wegner,S.** 40
- Wegner,S. A.** 21
- Wei,J.** 259
- Weina,P.** 390
- Weina,P. J.** 338, 379, 380, 391, 433, 434, 435, 469, 470
- Weinstein,A.** 370
- Weiss,B. M.** 464
- Weissenbacher,M.** 203
- Welcher,B.** 141
- Weldon,P. J.** 260
- Werbovetz,K.** 92
- Wernsdorfer,W. H.** 162, 163
- Wesensten,N.** 364, 371
- Wesensten,N. J.** 10, 312, 414, 465
- Wesley,R. A.** 17, 18, 19
- West,Jonathan** 302
- Whalley,C. E.** 430
- Whelan,H. T.** 261
- Whelan,N. T.** 261
- White,K.** 218, 231
- White,M. A.** 466
- White,N. J.** 220, 226, 446
- Whitehead,S. S.** 78, 262

- Whittington,W. L.** 280
- Wickboldt,J.** 143
- Widjaja,H.** 237
- Wiggert,B.** 154
- Wilbe,K.** 263
- Wilgus,H.** 375
- Wilkerson,R. C.** 200, 264
- Williams,A.** 140, 422, 443
- Williams,A. J.** 15, 43, 83, 265, 266, 267, 268, 274, 330, 383, 408, 452, 467, 468, 471
- Williams,C.** 194
- Williams,J.** 11, 26, 144
- Williams,T.** 443
- Wills,B.** 226
- Wilson,F.** 65
- Wing,S. L.** 269
- Winzeler,E. A.** 122
- Wipasa,J.** 87
- Wirth,D. F.** 79
- Wirtz,R.** 205
- Wirtz,R. A.** 179, 206
- Wisetchang,M.** 4
- Witkin,J. M.** 279
- Wohl,J. S.** 67
- Wojcik,R.** 133
- Wolf,M.** 348
- Wolf,M. K.** 105
- Woller,K. L.** 383
- Woltkamp,M.** 91

- Wong,E.** 130, 379, 469
- Wong-Riley,M. T.** 261
- Wongkalasin,K.** 108, 116
- Wongkamheng,S.** 150
- Wongsrichanalai,C.** 68, 145, 153, 161, 162, 163, 172, 173, 174, 181, 182, 270, 271
- Wongstitwilairoong,B.** 405
- Woodard,C. L.** 272, 315, 373
- Worapong,J.** 239
- Worn,V. W.** 426
- Wortmann,G.** 208, 407
- Wortmann,G. W.** 206
- Writer,J. V.** 177
- Wu,J. B.** 120
- Wu,T. S.** 120
- Wu,Y.** 428
- Xie,L. H.** 130, 379, 380, 469
- Xu,G.** 410
- Xu,L.** 191
- Yadava,A.** 273
- Yalley-Ogunro,J.** 249
- Yan,G.** 41
- Yan,X.** 299
- Yanez,D.** 379, 469
- Yang,D. C. H.** 316
- Yang,Y.** 308, 390, 433, 470
- Yao,C.** 15, 44, 265, 267, 274, 383, 471
- Yau,Y. Y.** 17, 18, 19, 124, 149
- Yenesew,A.** 275, 276, 462

- Yingst,S.** 277  
**Yingyuen,K.** 270, 400  
**Yongvanitchit,K.** 4, 175, 180  
**Yoo,M. H.** 97  
**Young,H. A.** 207  
**Young,P. R.** 472  
**Yourick,D.** 381  
**Yourick,D. L.** 278, 303, 473  
**Yousuf,A. A.** 129, 378  
**Yu,J.** 389  
**Yu,M.** 474  
**Yu,Q. S.** 375  
**Yu,X. F.** 47  
**Yu,Z.** 471  
**Yunus,E. B.** 161  
**Zahwa,H.** 164  
**Zalewski,C.** 181  
**Zamani,K.** 168  
**Zapata,A.** 279  
**Zaucha,G.** 422  
**Zaucha,G. M.** 74, 344  
**Zeaiter,Z.** 174  
**Zeichner,B. C.** 179, 224  
**Zeira,M.** 80  
**Zelazowska,E. B.** 63  
**Zhang,C.** 365  
**Zhang,P. F.** 47  
**Zhang,X.** 207

**Zhang,X. P.** 475

**Zheng,H.** 386

**Zheng,Y. Z.** 87

**Zheng,Z. L.** 321

**Zhou,G.** 41

**Zhou,S.** 259

**Zhou,Y.** 122

**Zim,B.** 168

**Zizak,Z.** 166

**Zollinger,W.** 314

**Zollner,G. E.** 458, 476

**Zolock,D. T.** 187

**Zuckerman,R. A.** 280

**Zwick,H.** 137, 300, 320, 335, 419, 477, 478

**Zwick,Harry** 286, 287

# **TITLE INDEX**

## TITLE INDEX

- 41st Annual Meeting of the Infectious Disease Society of America: Abstracts** 459
- Abstracts of Papers of the American Chemical Society** 302, 347
- Abstracts of the General Meeting of the American Society for Microbiology** 317, 348, 354, 389, 399, 405, 431, 440, 441, 455
- Accession Medical Standards Analysis and Research Activity Annual Report 2002** 301
- Acta Crystallographica. Section D: Biological Crystallography** 151
- Acta Neuropathologica** 143
- Advances In Space Research** 199
- Advances in Virus Research** 57, 189, 240
- AIDS** 21, 42, 152, 171, 251
- AIDS Research and Human Retroviruses** 25, 34, 80, 112, 170, 242, 249
- Alternative Toxicological Methods** 296
- American Journal of Dermatopathology** 208
- American Journal of Pharmacogenomics** 121
- American Journal of Public Health** 177
- American Journal of Tropical Medicine and Hygiene** 3, 36, 41, 56, 58, 76, 94, 102, 103, 115, 139, 145, 160, 161, 175, 182, 185, 188, 198, 203, 210, 211, 230, 232, 252, 254, 255, 256, 270, 271, 308, 315, 318, 322, 323, 327, 331, 338, 341, 349, 356, 357, 358, 361, 363, 365, 368, 373, 374, 377, 378, 379, 380, 386, 390, 391, 392, 393, 395, 400, 407, 409, 423, 426, 427, 428, 432, 433, 435, 439, 442, 443, 445, 446, 456, 458, 461, 462, 463, 466, 469, 470, 476
- Annals of Emergency Medicine** 394

<b>Annals of Oncology</b>	28
<b>Annals of Pharmacotherapy</b>	14
<b>Annals of the New York Academy of Sciences</b>	108, 126, 174, 212, 244
<b>Annals of Tropical Medicine and Parasitology</b>	79
<b>Antimicrobial Agents and Chemotherapy</b>	29, 181, 202, 220, 237
<b>Applied Biochemistry and Biotechnology</b>	195
<b>Applied Organometallic Chemistry</b>	62
<b>Aquaculture</b>	97
<b>Arthritis and Rheumatism</b>	156, 334, 367, 370, 397
<b>Arthritis Research &amp; Therapy</b>	454
<b>ARVO Annual Meeting Abstract Search and Program Planner</b>	429, 478
<b>Asian Pacific Journal of Allergy and Immunology</b>	123
<b>ASM Biodefense Research Conference: Abstracts</b>	328, 387, 437
<b>Aviation Space and Environmental Medicine</b>	16
<b>Biochemical Pharmacology</b>	5, 138
<b>Biochemistry</b>	186, 216
<b>Bioelectromagnetics</b>	169
<b>Bioorganic and Medicinal Chemistry</b>	92, 166
<b>Biopolymers</b>	86

<b>Bioscience Reports</b>	372
<b>Blood</b>	207, 306, 453, 464
<b>Brain Research</b>	168, 278
<b>British Journal of Haematology</b>	17
<b>Brucellosis 2003 International Research Conference</b>	314, 353, 355
<b>Cellular and Molecular Life Sciences</b>	147
<b>Clinical and Experimental Immunology</b>	248
<b>Clinical Chemistry</b>	131
<b>Clinical Immunology</b>	65, 66
<b>Clinical Infectious Diseases</b>	59, 257
<b>Clinical Neurophysiology</b>	204
<b>Combat Medicine: Basic and Clinical Research in Military, Trauma, and Emergency Medicine</b>	288, 289, 290
<b>Contemporary Topics in Laboratory Animal Science</b>	217
<b>Critical Reviews in Microbiology</b>	277
<b>Current Directions in Autoimmunity</b>	107
<b>Current Hematology Reports</b>	197
<b>Current Opinion in Infectious Diseases</b>	258
<b>Current Opinion in Microbiology</b>	52

- Current Opinion in Rheumatology** 243
- Current Pharmaceutical Design** 12, 13
- Drug Metabolism Reviews** 434
- Emerging Infectious Diseases** 89, 129, 173, 241
- European Journal of Biochemistry** 75, 215
- Experimental Brain Research** 267
- Experimental Neurology** 83
- Experimental Parasitology** 304, 305, 319, 333, 342, 352, 369, 401, 403, 460
- Expert Opinion on Therapeutic Targets** 253
- Expert Review of Vaccines** 71
- FASEB Journal** 307, 313, 316, 321, 324, 332, 340, 359, 388, 402, 404, 411, 412, 425, 436, 438, 449, 450, 475
- Fitoterapia** 73
- Free Radical Research** 309, 344
- Fundamental & Clinical Pharmacology** 268
- Healing, Intention, and Energy Medicine: Science, Research Methods & Clinical Implications** 299
- Health Physics** 137
- Helvetica Chimica Acta** 33
- Immunology and Cell Biology** 192

<b>Infection and Immunity</b>	24, 53, 63, 259, 273
<b>Insect Biochemistry and Molecular Biology</b>	190
<b>International Journal for Parasitology</b>	100
<b>International Journal of Acarology</b>	116
<b>International Journal of Cancer</b>	31
<b>International Journal of Oncology</b>	191
<b>Investigative Ophthalmology &amp; Visual Science</b>	320, 335, 419, 474, 477
<b>JAMA</b>	127, 128
<b>Journal of Acquired Immune Deficiency Syndromes</b>	194, 209
<b>Journal of Applied Physiology</b>	219
<b>Journal of Applied Research</b>	8
<b>Journal of Biological Chemistry</b>	39, 64, 250
<b>Journal of Cellular Biochemistry</b>	110
<b>Journal of Cellular Physiology</b>	154
<b>Journal of Cerebral Blood Flow and Metabolism</b>	266
<b>Journal of Clinical Investigation</b>	246
<b>Journal of Clinical Laser Medicine and Surgery</b>	261
<b>Journal of Clinical Microbiology</b>	55, 68, 84, 93, 96, 164, 172, 239
<b>Journal of Clinical Virology</b>	326, 382, 457, 472

- Journal of Experimental Medicine** 236
- Journal of Immunology** 11, 60, 118, 119, 155, 180, 231, 238
- Journal of Infection** 6
- Journal of Infectious Diseases** 27, 70, 183, 221, 229, 280
- Journal of Leukocyte Biology** 343
- Journal of Liposome Research** 106, 134, 311, 447
- Journal of Medical Entomology** 69, 113, 125, 205, 224
- Journal of Medical Microbiology** 37
- Journal of Medicinal Chemistry** 30, 213, 272
- Journal of Natural Products** 101, 120
- Journal of Neurology** 146
- Journal of Neuroscience** 81, 82
- Journal of Neurotrauma** 330, 351, 383, 422, 467
- Journal of Periodontal Research** 4
- Journal of Personality** 20
- Journal of Sleep Research** 10
- Journal of Surgical Research** 104
- Journal of the American Mosquito Control Association** 99, 158, 200, 201
- Journal of the American Veterinary Medical Association** 46

<b>Journal of the Serbian Chemical Society</b>	167
<b>Journal of Trauma</b>	50, 74, 187
<b>Journal of Travel Medicine</b>	227
<b>Journal of Urban Health</b>	176
<b>Journal of Urban Health-Bulletin of the New York Academy of Medicine</b>	133
<b>Journal of Vector Ecology</b>	225
<b>Journal of Veterinary Pharmacology and Therapeutics</b>	67
<b>Journal of Virology</b>	47, 141, 184
<b>Lancet</b>	226
<b>Laser and Noncoherent Light Ocular Effects: Epidemiology, Prevention, and Treatment III: 26-27 January 2003, San Jose, California, USA</b>	286, 287, 291, 295, 297, 300
<b>Lupus</b>	157
<b>Malaria Journal</b>	26, 48, 49
<b>Medical and Veterinary Entomology</b>	179
<b>Methods</b>	178
<b>Methods in Enzymology</b>	142, 193, 235
<b>Microbial Drug Resistance</b>	95
<b>Military Medicine</b>	88, 90
<b>Molecular and Biochemical Parasitology</b>	1, 136, 247

**Molecular and Cellular Biochemistry** 109, 111

**Molecular and Cellular Probes** 132

**Molecular Immunology** 448

**Nature Medicine** 9, 144

**Naturwissenschaften** 260

**Neuroscience Letters** 265

**Neurotoxicity Research** 15, 43, 44, 114, 274

**OMICS** 77

**Oral Microbiology and Immunology** 165

**Parasite Immunology** 218

**Parasitology** 130

**Pediatric Infectious Disease Journal** 233

**Pediatric Research** 339

**Perspectives in Gene Expression** 293

**Pharmacology, Biochemistry and Behavior** 279

**Pharmazie** 159

**Physiology and Behavior** 35, 140

**Phytochemistry** 276

**Planta Medica** 275

**Proceedings of the National Academy of Sciences of the United States of America** 54

**Progress in Lipid Research** 148

**Proteins** 22

**Psychology Of The Peacekeeper: Lessons From The Field** 281, 282, 284, 285, 298

**Research Advances in Microbiology** 294

**Retroviruses of Human AIDS and Related Animal Diseases** 283, 292

**Science** 122

**Sexually Transmitted Diseases** 40

**Shock** 234

**Sleep** 312, 336, 337, 360, 362, 364, 371, 414, 424, 451, 465

**Society for Neuroscience 2003 Abstract Viewer and Itinerary Planner** 303, 350, 366, 381, 384, 406, 408, 420, 421, 452, 468, 471, 473

**Southeast Asian Journal of Tropical Medicine and Public Health** 150, 222, 223, 398

**Task Group on Prophylaxis and Therapy Against Chemical Agents: TG-004 Meetings, 29 September - 3 October 2003, Medicine Hat, Alberta, Canada** 325, 329, 345, 375, 376, 396, 410, 413, 444

**Tetrahedron** 72, 91

**Toxicologic Pathology** 135, 214

**Toxicological Sciences** 310, 346, 430

**Toxicology** 61, 117

**Transfusion** 18, 19, 85, 124, 149, 196, 385, 415, 416, 417, 418

**Transfusion Medicine Reviews** 7

**Trends in Immunology** 245

**Trends in Parasitology** 163, 228

**Tropical Medicine and International Health** 153

**Vaccine** 2, 23, 38, 45, 51, 87, 105, 262

**Veterinary Parasitology** 206

**Virology** 32, 78, 263

**Wiener Klinische Wochenschrift** 162

**Wilderness & Environmental Medicine** 269

**Work and stress** 98

**Zootaxa** 264

# **SUBJECT INDEX**

**SUBJECT INDEX**

**3-Oxoacyl-(Acyl-Carrier-Protein) Synthase** 315, 373, 186

**4-Aminopyridine** 30

**Academies and Institutes** 150

**Acari** 116

**Acetamides** 14

**Acetylcholinesterase** 138, 213, 215, 216

**Acetylcysteine** 15, 324, 266

**Acquired Immunodeficiency Syndrome** 152

**Acute Disease** 180

**AcyI Carrier Protein** 186

**Adaptation, Psychological** 284

**Adenosine** 22

**Adenoviridae** 325, 55, 459

**Adenoviridae Infections** 55, 459

**Adenovirus Infections, Human** 459

**Adenoviruses, Human** 459

**Adhesion** 319

**Adjuvants, Immunologic** 2, 71, 87, 466

**Administration, Cutaneous** 178

**Administration, Intranasal** 314, 355

**Administration, Oral** 353

**Aedes** 318, 349, 361, 99, 113, 179, 224, 230, 260

**Aerospace Medicine** 337, 336, 195

**Africa, Eastern** 283

**Africa, Western** 159

**Age** 312

**Agricultural Workers' Diseases** 256

- AIDS Vaccines** 283, 47, 112, 292, 150, 171, 183, 194
- Algorithms** 305
- Alkaloids** 33, 120
- Altitude** 432
- Amiloride** 110
- Amino Acid Chloromethyl Ketones** 412
- Amino Acid Substitution** 117
- Amino Acids** 29
- Amino Acids, Aromatic** 215
- Aminoquinolines** 59, 185
- Amygdala** 473
- Anaplasma** 172
- Anemia** 14, 229
- Anopheles** 2, 69, 363, 113, 136, 185, 200, 210, 211, 223, 222, 264, 476
- Anoxemia** 269
- Anoxia** 111
- Anti-Bacterial Agents** 37, 95, 132, 167
- Anti-HIV Agents** 75, 120
- Anti-Infective Agents** 93, 159
- Antibiotics, Macrolide** 237
- Antibiotics, Tetracycline** 173
- Antibodies** 454
- Antibodies, Antiphospholipid** 454
- Antibodies, Bacterial** 24
- Antibodies, Protozoan** 2, 6, 53, 333, 54, 218, 221
- Antibodies, Viral** 58, 89, 102, 103, 127, 128, 160, 171, 184, 232, 252, 254
- Anticonvulsants** 467, 468, 279
- Antigen-Antibody Complex** 229

- Antigens** 404, 193  
**Antigens, Bacterial** 23, 105, 115  
**Antigens, CD3** 119, 156  
**Antigens, CD31** 321  
**Antigens, CD36** 319  
**Antigens, Protozoan** 2, 333, 54, 68, 352, 372, 218  
**Antigens, Surface** 2  
**Antigens, Viral** 205  
**Antimalarials** 308, 315, 30, 331, 48, 59, 79, 358, 120, 369, 373, 390, 391, 392, 161, 400, 162, 163, 403, 166, 167, 181, 182, 185, 409, 202, 433, 434, 435, 220, 253, 461, 462, 460, 272, 469, 275, 276  
**Antimicrobial Cationic Peptides** 86  
**Antineoplastic Agents** 12, 166  
**Antineoplastic Agents, Phylogenetic** 120  
**Antioxidants** 61, 73, 366, 114, 473  
**Antiporters** 84  
**Antiproliferative** 167  
**Antiprotozoal Agents** 92, 233  
**Antiretroviral Therapy, Highly Active** 164  
**Antiviral Agents** 226  
**Aotinae** 217, 228, 443  
**Aotus nancymae (owl monkey) (Cebidae)** 348  
**Aotus nancymai** 304  
**Apiaceae** 159  
**Apoptosis** 324, 330, 43, 63, 408, 413  
**Arachidonic Acid** 100  
**Arachnid Vectors** 139  
**Araliopsis tabouensis** 33  
**Arboviruses** 427

- Arousal** 362, 451, 465
- Artemisinins** 308, 59, 342, 341, 379, 130, 380, 390, 391, 392, 182, 185, 439, 220, 469, 470
- Arthritis, Rheumatoid** 246
- Asia, Southeastern** 181
- ATP-Binding Cassette Transporters** 79
- Attention** 20
- Autoimmune Diseases** 107
- Avoidance Learning** 35
- Azacitidine** 191
- Azithromycin** 237
- B-Lymphocyte Subsets** 107
- Bacterial Outer Membrane Proteins** 38, 139
- Bacterial Proteins** 84, 95
- Bacterial Toxins** 23, 24, 105
- Bacterial Vaccines** 23, 45
- Bandages** 187
- Bangladesh** 89, 161
- Bartonella** 174
- Behavior, Animal** 406
- Benzenesulfonates** 114
- Benzoquinones** 260
- Bioflavonoids** 275
- Biological Assay** 345, 400, 235
- Biological Warfare** 328, 389
- Biosensing Techniques** 195
- Bioterrorism** 131, 133, 177
- Birth Weight** 53
- Blast Injuries** 61

- Blastocystis** 239
- Blister** 359, 410, 413
- Blood** 345
- Blood Coagulation** 7, 453, 464
- Blood Component Removal** 17
- Blood Donors** 19, 124, 149
- Blood Platelets** 416, 417, 464
- Blood Preservation** 7, 85, 385, 415, 418
- Blood Specimen Collection** 417
- Blood Substitutes** 306, 196
- Blood Transfusion** 417
- Blood Transfusion, Autologous** 385
- Borrelia burgdorferi Group** 116
- Bosnia-Herzegovina** 20
- Botulinum Toxin Type A** 475
- Botulinum Toxins** 340
- Bradycardia** 3
- Brain** 265
- Brain Injuries** 350, 422
- Brain Ischemia** 81, 351, 83, 383, 140, 421, 452, 266, 467, 468, 267, 268
- Brain Tissue Transplantation** 146
- Brazil** 179
- Breathing Exercises** 299
- Bronchi** 309
- Brucella melitensis** 314, 63, 353, 355
- Brucella Vaccine** 314, 353, 355
- Brucellosis** 353, 277
- Buforin** 340

- Burkholderia pseudomallei** 248
- Butyrylcholinesterase** 325, 375, 376, 396, 213, 215, 444
- Caffeine** 362
- Calcium** 49, 110
- Calcium Carbonate** 18, 19
- Calcium Phosphates** 466
- Calorimetry, Differential Scanning** 134
- Campylobacter** 405
- Campylobacter jejuni** 399
- Carbolines** 120
- Carbon Dioxide** 201
- Carbon Monoxide** 346
- Carrier Proteins** 413
- Caspases** 412
- Cat Diseases** 46
- Catalysis** 72
- Catechin** 165
- Cats** 67
- CD4 Lymphocyte Count** 184
- CD4-Positive T-Lymphocytes** 119, 194, 231, 277
- CD8-Positive T-Lymphocytes** 11, 42, 231, 277
- CDC2-CDC28 Kinases** 31
- Cebus** 260
- Celastrus** 73
- Cell Adhesion** 52
- Cell Adhesion Molecules** 289, 236
- Cell Differentiation** 118
- Cell Hypoxia** 278

- Cell Line** 429  
**Cell Survival** 429, 278  
**Central Nervous System Stimulants** 362, 279  
**Centrifugation, Density Gradient** 26  
**Centrin** 386  
**Cerebral Cortex** 168, 473  
**Cerebrovascular Circulation** 16  
**CGP18** 311  
**Chemical Warfare Agents** 329, 376, 384, 147, 430, 296, 265  
**Child Care** 227  
**Chimeric Proteins** 262  
**China** 264  
**Chitinase** 247  
**Chloroquine** 323, 30, 79, 168  
**Cholera Toxin** 2  
**Cholera Vaccines** 123  
**Cholesterol** 8, 192  
**Cholinesterase Inhibitors** 5, 72, 384, 138, 213, 215  
**Cholinesterase Reactivators** 138  
**Cholinesterases** 5, 345  
**Chondroitin Sulfates** 53  
**Choroid** 286, 295  
**Choroid Diseases** 286  
**Choroidal Neovascularization** 295  
**Chromatin** 238, 450  
**Chromatography, Liquid** 470  
**Chronic Disease** 356  
**Chymotrypsin** 190

- Ciprofloxacin** 93, 132
- Circadian Rhythm** 362, 364, 371, 414
- Cocaine** 279
- Codon** 273
- Collagen** 246
- Color Perception** 300
- Color Vision Defects** 300
- Communicable Diseases** 389
- Communicable Diseases, Emerging** 89, 173
- Complement** 332, 229, 235
- Complement 1 Inactivators** 104
- Complement 3a** 9
- Complement 5** 65
- Complement 5a** 9, 66
- Complement Activation** 8, 28, 104, 234, 447, 448, 454
- Complement Inactivators** 288, 175
- Complement Membrane Attack Complex** 66
- Computer Simulation** 336
- Conotoxins** 43, 452, 267
- Convulsants** 279
- CpG Islands** 87, 123, 248
- Cryopreservation** 415
- Crystallography, X-Ray** 276
- Culicidae** 78, 158, 201, 205, 262
- Culture Media** 405
- Cyclic AMP** 370, 238, 450
- Cyclic AMP-Dependent Protein Kinases** 334, 60
- Cyclin-Dependent Kinases** 253, 272

- Cyclins** 31, 32
- Cyclospora** 440
- Cysteine Endopeptidases** 15
- Cytochrome P-450 Enzyme System** 434
- Cytokinins** 309
- Cytotoxicity, Immunologic** 310
- Data Interpretation, Statistical** 301
- Decompensation** 449
- Deer** 225
- DEET** 113
- Defense Mechanisms** 20
- Delta Rhythm** 83, 268
- Dendritic Cells** 4, 404, 180, 236, 246
- Dengue** 56, 58, 76, 349, 89, 94, 361, 102, 103, 160, 179, 180, 188, 217, 230, 232, 240, 463, 255, 257
- Dengue Hemorrhagic Fever** 326, 327, 361, 252, 472
- Dengue Virus** 56, 58, 76, 78, 89, 94, 102, 103, 365, 160, 188, 217, 232, 236, 456, 457, 252, 255, 262, 472
- Dermatologic Agents** 410, 413
- Dermatology** 208
- Dextromethorphan** 279
- Diabetes Mellitus, Experimental** 261
- Diarrhea** 317
- Diarylheptanoids** 101
- Dietary Supplements** 269
- Digestive System** 190
- Dimethyl Sulfoxide** 106, 134
- Dinoprost** 100
- Dinoprostone** 207
- Dipeptides** 278

- Disease Models, Animal** 387, 187, 214, 228
- Disease Notification** 133
- Disease Outbreaks** 55, 89, 377, 129, 133, 160, 176, 177, 432, 241, 242, 459
- Disease Progression** 249, 472
- Disease Reservoirs** 36, 206
- Disease Transmission** 374
- Disease Transmission, Vertical** 170
- Dissection** 27
- DNA** 87
- DNA-Binding Protein, Cyclic AMP-Responsive** 60
- DNA-Binding Proteins** 370, 238, 450, 244
- DNA Damage** 267
- DNA Fingerprinting** 441
- DNA Fragmentation** 329, 147
- DNA Gyrase** 93
- DNA Methylation** 191
- DNA Probes** 132
- DNA Repair** 413
- DNA, Viral** 27, 97
- Dog Diseases** 206
- Dogs** 439
- Down-Regulation** 324, 334, 471
- Doxorubicin** 28
- Drug Delivery Systems** 13, 142
- Drug Hypersensitivity** 448
- Drug Interactions** 331
- Drug Resistance** 29, 323, 342, 341, 161, 162, 182, 435, 461, 462, 460
- Drug Resistance, Bacterial** 93

- Drug Resistance, Multiple** 377
- Drug Resistance, Multiple, Bacterial** 95, 399
- Dysentery, Bacillary** 84
- Ecuador** 25
- Education** 303
- Ehrlichia** 172
- Ehrlichia chaffeensis** 198
- Ehrlichiosis** 198
- Electroencephalography** 16, 350, 268
- Electron Spin Resonance Spectroscopy** 74
- Electroretinography** 287, 335, 478, 477
- Electroshock** 35
- Embolism** 135
- Emergency Service, Hospital** 394
- Encephalitis** 265
- Encephalitis, Japanese** 226, 254
- Encephalitis Virus, Eastern Equine** 158
- Encephalitis Virus, Japanese** 254
- Encephalitis Virus, St. Louis** 205
- Encephalitis Virus, Venezuelan Equine** 47
- Encephalitis Virus, Western Equine** 158
- Endemic Diseases** 79, 368
- Endoplasmic Reticulum** 49
- Endothelial Cells** 453
- Endothelium, Vascular** 321, 65, 207
- Enterotoxins** 316, 23, 24, 77, 105, 117, 387, 388, 214, 436, 437, 438
- Enterovirus** 317
- Environment** 50, 222

- Enzyme Inhibitors** 315, 22, 165, 272
- Enzyme-Linked Immunosorbent Assay** 393, 463
- Enzyme Precursors** 119
- Epidemiology** 301
- Epidermis** 412
- Epinephrine derivatives** 302
- Epithelial Cells** 309
- Epitopes** 6
- Epitopes, T-Lymphocyte** 194
- Epstein-Barr Virus Infections** 127, 128
- Erythrina** 275
- Erythrocyte Deformability** 446
- Erythrocyte Membrane** 175
- Erythrocytes** 85, 385, 415, 418, 229, 446, 464
- Escherichia coli** 305, 23, 24, 45, 84, 105, 372, 431
- Escherichia coli (Enterobacteriaceae) --pathogen enterotoxigenic strain-B7A strain-H10407** 348
- Escherichia coli Infections** 23, 24, 84
- Escherichia coli Proteins** 23, 105
- Escherichia coli Vaccines** 105
- Ethiopia** 80
- Ethylenebis(dithiocarbamates)** 62
- Eubacterium** 172
- Eurycoma** 120
- Evidence-Based Medicine** 301
- Evolution, Molecular** 22, 263
- Excitatory Amino Acid Antagonists** 330, 43, 452, 267
- Exocytosis** 475
- Explosions** 61

- Eye Injuries** 287, 90, 291, 297, 478, 477  
**Eye Movements** 137  
**Fatty Acid Synthetase Complex** 186  
**Feces** 440  
**Feeding Behavior** 210  
**Ferns** 199  
**Ferric Compounds** 473  
**Fetal Blood** 216  
**Fetal Tissue Transplantation** 146  
**Fever** 255  
**Fever of Unknown Origin** 254  
**Fibroblasts** 195  
**Filgrastim** 149  
**Fimbriae Proteins** 23  
**Flagellin** 116  
**Flavivirus** 57, 374, 189  
**Fleas** 174  
**Fluid Therapy** 313, 50, 332, 449  
**Folic Acid** 358  
**Folic Acid Antagonists** 369, 434, 435  
**Formaldehyde** 57  
**G2 Phase** 32  
**Gamma-Globulins** 9  
**Gastric Mucosa** 23  
**Gene Expression** 325, 328, 122, 293, 401, 199, 430, 296, 267  
**Gene Expression Profiling** 316, 48, 122, 131, 383, 388, 249  
**Gene Expression Regulation** 111  
**Gene Products, env** 47

- Gene Products, tax** 31  
**Gene Products, vpr** 32  
**Gene Silencing** 191  
**Gene Therapy** 246  
**Genes, fos** 370, 450  
**Genes, Protozoan** 122  
**Genetic Vectors** 325  
**Genetics** 441  
**Genistein** 109  
**Genome, Bacterial** 259  
**Genome, Viral** 80, 97, 170, 263  
**Genomics** 259  
**Genotype** 365, 395  
**Geographic Information Systems** 223, 222  
**Germination** 199  
**Giant Cells** 184  
**Gingiva** 4  
**Glioma** 48  
**Gliosis** 266  
**Glutamic Acid** 212  
**Glycoproteins** 191  
**Glycosylation** 244  
**Glycosylphosphatidylinositol**s 175  
**Group Processes** 98  
**Guatemala** 206  
**Health Priorities** 88  
**Health Status Indicators** 177  
**Heat** 429

- Heat-Shock Proteins 70** 109
- Heat-Shock Response** 109
- Heat Stress Disorders** 290
- Hematopoietic Stem Cells** 149
- Heme Oxygenase (Decyclizing)** 343, 344
- Hemin** 30
- Hemochromatosis** 124
- Hemoglobins** 368, 196
- Hemoglobinuria, Paroxysmal** 175
- Hemorrhage** 306, 344, 187
- Hemostasis** 306
- Hemostatic Techniques** 187
- Hemostatics** 187, 197
- Hepacivirus** 171
- Hepatitis B** 203
- Hepatitis C** 171, 203
- Hepatocytes** 390, 443
- Herpesvirus 4, Human** 127, 128
- Herpesvirus 6, Human** 27
- Herpesvirus 8, Human** 40
- Heteroduplex Analysis** 116
- Heterosexuality** 242
- Hippocampus** 169, 406
- Histidine** 117
- HIV-1** 21, 25, 34, 42, 75, 80, 96, 112, 141, 395, 152, 164, 170, 171, 183, 184, 209, 242, 251, 257, 263, 280
- HIV Antibodies** 311, 34, 47, 112, 164
- HIV Antigens** 194

- HIV Envelope Protein gp120** 112, 183
- HIV Envelope Protein gp160** 194
- HIV Infections** 21, 25, 34, 40, 42, 80, 382, 395, 164, 170, 171, 183, 184, 194, 203, 209, 241, 242, 251, 257
- HIV Long-Term Survivors** 170
- HIV Seronegativity** 6
- HIV Seropositivity** 6
- Homeostasis** 49, 212
- Horses** 215, 239
- Hydrogen Peroxide** 73
- Hydrolases** 22, 75
- Hydroxamic Acids** 92
- Hydroxyprostaglandin Dehydrogenases** 100
- Hypercapnia** 422
- Hypercarbia** 422
- Hypersensitivity** 28, 447
- Hypotension** 313, 332, 449
- Imaging, Three-Dimensional** 315
- Immunity** 442, 455
- Immunity, Maternally-Acquired** 252
- Immunity, Mucosal** 23
- Immunity, Natural** 118
- Immunization, Passive** 355, 141
- Immunization, Secondary** 144
- Immunoassay** 164, 431, 440, 270
- Immunoglobulins, Intravenous** 9
- Immunologic Memory** 11
- Indans** 215
- India** 233

- Indian Ocean Islands** 129, 378
- Indoles** 33, 272
- Indoloquinazoline alkaloids** 33
- Indonesia** 198, 237
- Infarction, Middle Cerebral Artery** 15, 81, 351, 83, 421, 452, 266
- Inflammation** 15
- Inflammation Mediators** 309, 265
- Infrared Rays** 261
- Injections, Intradermal** 178
- Injections, Subcutaneous** 314
- Inosine** 385
- Insect Bites and Stings** 69
- Insect Repellents** 113, 125
- Insect Vectors** 349, 361, 363, 374, 179, 223, 222, 230, 476
- Insecticides** 179
- Insecticides, Botanical** 225
- Insecticides, Organophosphate** 425
- Insects** 260
- Integrin alpha4** 65
- Integrons** 95
- Interferon Alfa-2a** 226
- Interferon Type II** 231
- Interleukin-2** 334, 156, 238, 450
- Interleukin-8** 319
- International Classification of Diseases** 394
- Intestinal Mucosa** 66
- Iohexol** 26
- Iridovirus** 97

- Iron** 74
- Ischemic Attack, Transient** 471, 274
- Isotonic Solutions** 332
- Ivermectin** 398
- Ixodes** 225
- Ixodidae** 116, 139
- Job Satisfaction** 20
- Kenya** 42, 339, 70, 368, 139, 407, 427, 432, 221, 461, 462, 460
- Keratinocytes** 410, 412, 413
- Kidney** 67
- Kinetics** 458, 476
- Korea** 97, 264
- Kupffer Cells** 442
- Laboratories** 303
- Larva** 363
- Laser Surgery** 27
- Laser Therapy, Low-Level** 261
- Lasers** 320, 286, 287, 137, 291, 295, 297, 478, 477, 300
- Lectins, C-Type** 236
- Leishmania** 100
- Leishmania braziliensis** 206
- Leishmaniasis** 338
- Leishmaniasis, Cutaneous** 206, 208
- Leishmaniasis, Visceral** 356, 407, 294, 233
- Leptospira** 463
- Leptospirosis** 256, 271
- Leukapheresis** 149
- Leukocytes** 329, 147, 417

- Leukocytes, Mononuclear** 76, 77, 249
- Light** 474
- Linkage (Genetics)** 121
- Lipoproteins** 38
- Liposomes** 8, 28, 106, 123, 134, 142, 148, 404, 192, 193, 235, 447
- Liver** 11, 368, 390, 187, 423, 443
- Liver Neoplasms** 46
- Long-Term Potentiation** 169
- Los Angeles** 208
- LSA-1** 352
- Lung** 61, 343, 344
- Lupus Erythematosus, Systemic** 107, 367, 121, 370, 397, 156, 157, 243, 244, 245
- Lyme Disease** 225
- Lymphocyte Activation** 60, 118, 238, 245
- Lymphocytes** 293
- Lymphoid Tissue** 388
- Lymphoma** 135
- Lysine** 110
- Macaca fascicularis** 376
- Macaca mulatta** 1, 286, 56, 71, 391, 392, 396, 188, 419, 249, 262
- Macaca mulatta (rhesus monkey) (Cercopithecidae) --adult host animal model** 348
- Macrophage Activation** 248
- Macrophages** 63, 354, 404, 193, 248
- Macula Lutea** 286
- Magnetic isolation** 26
- Magnetic Resonance Spectroscopy** 106
- Malaria** 11, 51, 87, 363, 379, 130, 380, 145, 401, 181, 223, 222, 227, 460, 476
- Malaria, Falciparum** 304, 6, 53, 52, 68, 339, 70, 79, 153, 161, 163, 182, 432, 220, 221, 229, 231, 237,

270, 271

**Malaria Vaccines** 1, 304, 305, 2, 51, 53, 71, 372, 144, 393, 423, 211, 428, 218, 231, 445, 273

**Malaria, Vivax** 2, 41, 68, 185, 202, 210, 211, 228, 270, 271

**Maldives** 378

**Malonyl Coenzyme A** 186

**Mammals** 36

**Mannitol** 87

**MAP Kinase Signaling System** 154

**Maryland** 225

**Mass Screening** 301

**Maze Learning** 420

**Mefloquine** 48, 49, 182

**Melanesia** 69

**Melatonin** 364, 414, 465

**Melioidosis** 248

**Membrane Glycoproteins** 175, 246

**Membrane Microdomains** 367

**Membrane Proteins** 29, 333, 54, 79, 119, 156, 157, 175

**Memory** 420, 465

**Meningococcal Vaccines** 38

**Mental Disorders** 88

**Mental Health** 281, 282

**Merozoite Surface Protein 1** 1, 304, 64, 87

**Mesenteric Artery, Superior** 66

**Mexiletine** 44, 471, 274

**Micelles** 86

**Microbiological Techniques** 131

**Microcirculation** 289

- Microdialysis** 402  
**Microscopy** 145  
**Microscopy, Confocal** 419  
**Microsomes, Liver** 434, 435  
**Microtubules** 404  
**Microwaves** 169  
**Middle Cerebral Artery** 15  
**Military Medicine** 338, 301  
**Military Personnel** 281, 282, 284, 20, 285, 21, 40, 55, 59, 338, 88, 90, 301, 209, 298, 459  
**Millettia** 276  
**Missouri** 116  
**Mitosis** 32  
**Models** 312  
**Models, Animal** 416  
**Models, Biological** 219  
**Monkey Diseases** 217  
**Mosquito Control** 179, 223, 260  
**Motivation** 20  
**Motor Activity** 384  
**Multienzyme Complexes** 15  
**Multiple Sclerosis** 27, 127, 128  
**Mustard Gas** 324, 359, 410, 411, 412, 413  
**Mutation** 29, 93, 182, 461  
**Myanmar** 172, 173, 174, 271  
**N-Methylaspartate** 330, 278  
**Nanotubes** 148  
**Neisseria meningitidis** 38  
**Neoplasms** 13

- Neoplasms, Neuroepithelial** 143
- Neovascularization, Physiologic** 207
- Nepal** 377
- Nerve Degeneration** 356
- Nerve Growth Factors** 406
- Nerve Tissue Proteins** 44, 471, 274
- Nervous System Diseases** 356, 266
- Neuraminidase** 39
- Neuroblastoma** 48
- Neurons** 330, 43, 44, 73, 82, 114, 168, 408, 265, 278, 475
- Neuroprotective Agents** 15, 330, 43, 73, 366, 114, 375, 376, 381, 422, 268, 278
- Neurosciences** 303
- Neurotoxicity Syndromes** 49
- Neutrophils** 321, 39, 65, 343
- NF-kappa B** 324, 266
- Nigeria** 79
- Nitric Oxide** 309, 347, 456
- Nitric-Oxide Synthase** 110, 250
- Nitrogen Dioxide** 309, 310
- Nitrogen Oxides** 366
- Nonsteroidal** 320
- North Carolina** 201
- Nuclease Protection Assays** 132
- Nutrition Disorders** 339, 70
- O Antigens** 63
- Occupational Diseases** 204
- Occupational Health** 98
- Octanols** 201

- Oculomotor Nerve** 204
- Oleic Acids** 87
- Oligodeoxyribonucleotides** 248
- Oligonucleotide Array Sequence Analysis** 383, 429
- Oligopeptides** 37
- Ophthalmoscopy** 419
- Opsonins** 218
- Organ Specificity** 308
- Organizational Culture** 298
- Organizational Policy** 301
- Organophosphorus Compounds** 381, 138, 296
- Organothiophosphorus Compounds** 376, 384
- Orientia tsutsugamushi** 36, 357, 108, 115, 126, 129, 416, 453, 463, 258
- Oropharynx** 280
- Osteosarcoma** 46
- Outcome Assessment (Health Care)** 145
- Ovalbumin** 192
- Oxazolidinones** 14
- Oxidative Stress** 114, 269
- Oxidoreductases** 151
- Oximes** 5
- Oxygen** 195, 269
- Oxygenation** 422
- Oxyhemoglobins** 219
- P-Glycoprotein** 181
- Palladium** 72
- Papua New Guinea** 69
- Parasitic Sensitivity Tests** 163, 202

- Parietal Lobe** 424  
**Parkinson Disease** 146  
**Patient Care** 338  
**Penicillamine** 110  
**Peptide Fragments** 216  
**Perceptual Disorders** 424  
**Perfusion** 286  
**Periodicity** 83  
**Periodontitis** 4  
**Peripheral Blood Stem Cell Transplantation** 17, 149  
**Permeability** 409  
**Permethrin** 225  
**Personality** 146  
**Personnel Selection** 301  
**Personnel Turnover** 301  
**Peru** 322, 68, 182, 426  
**Pest Control** 224  
**Pest Control, Biological** 260  
**Phagocytosis** 63  
**Pharmacokinetics** 148, 444  
**Pharynx** 55  
**Pheromones** 201  
**Philippines** 29, 323  
**Phlebotomus** 190  
**Phospholipases A** 475  
**Phosphoric Monoester Hydrolases** 143  
**Phosphorylation** 244  
**Phosphorylcholine** 86, 233

- Physical Conditioning, Animal** 140
- Physical Stimulation** 35
- Phytotherapy** 73, 269
- Pigment Epithelium of Eye** 320, 154
- Piperidines** 113, 215
- Placenta** 53, 52
- Plant Extracts** 73, 130, 462
- Plant Preparations** 269
- Plant Roots** 275
- Plants, Medicinal** 101, 120, 159, 462, 275
- Plaque Assay** 205
- Plasma** 390, 400
- Plasma Cells** 180
- Plasmids** 95
- Plasmodium** 386, 145
- Plasmodium berghei** 11, 26, 358, 379, 130, 380, 442, 469
- Plasmodium coatneyi** 392
- Plasmodium cynomolgi** 443
- Plasmodium falciparum** 1, 304, 305, 6, 319, 22, 29, 323, 30, 53, 52, 333, 54, 64, 68, 339, 70, 342, 341, 79, 352, 368, 372, 122, 373, 136, 393, 151, 398, 161, 400, 162, 163, 166, 175, 181, 182, 186, 423, 202, 218, 221, 231, 446, 253, 461, 270, 272, 273, 275, 276
- Plasmodium vivax** 2, 41, 68, 393, 185, 423, 202, 210, 211, 428, 228, 445, 446, 247, 458, 270, 476
- Plasmodium yoelii** 87, 247
- Plateletpheresis** 18, 19
- Point Mutation** 78, 79
- Polyethylene Glycols** 28
- Polymerase Chain Reaction** 97, 357, 132, 382, 407, 431, 459
- Polymers** 425
- Polymorphism (Genetics)** 382, 181, 445

- Polymorphism, Restriction Fragment Length** 382, 441
- Population Surveillance** 133, 394, 177
- Porphyromonas gingivalis** 4
- Prefrontal Cortex** 424
- Pregnancy** 6, 51
- Pregnancy Complications, Infectious** 52
- Pregnancy Complications, Parasitic** 51, 53
- Preservatives, Pharmaceutical** 7
- Prevotella intermedia** 165
- Primates** 353, 478, 477
- Promoter Regions (Genetics)** 450, 250
- Prostitution** 395, 203
- Protease Inhibitors** 359, 410, 411
- Protective Devices** 69
- Protein p53** 31, 143
- Protein-Tyrosine Kinase** 109, 119
- Protein-Tyrosine-Phosphatase** 165
- Proteins** 68, 340, 162
- Protirelin** 212
- Proto-Oncogene Proteins c-fos** 370, 450
- Protozoan Proteins** 333, 54, 79, 372, 182, 218, 231, 247, 466
- Protozoan Vaccines** 466
- Psychology, Military** 281, 284, 285, 298
- Psychomotor Performance** 451
- Public Health Administration** 177
- Public Health Informatics** 133, 176
- Puerto Rico** 349
- Pupil** 474

- Pyridines** 364, 414, 465  
**Pyridinium Compounds** 138  
**Pyridones** 72  
**Pyridostigmine Bromide** 345  
**Pyrimidines** 403  
**Pyrones** 91  
**Qigong** 299  
**Quality Assurance, Health Care** 301  
**Quinazolines** 358, 433  
**Quinones** 109, 429  
**Rabbits** 1  
**Radiation Protection** 137  
**Radiometry** 137  
**Reagent Kits, Diagnostic** 68, 96, 153, 407, 270  
**Reassortant Viruses** 242  
**Receptor-CD3 Complex, Antigen, T-Cell** 155  
**Receptors, Antigen, T-Cell** 118, 119, 397, 156, 157, 244  
**Receptors, CCR5** 152  
**Receptors, Cell Surface** 236  
**Receptors, Chemokine** 152  
**Receptors, CXCR4** 207  
**Receptors, Dopamine D1** 67  
**Receptors, IgE** 155  
**Receptors, IgG** 119  
**Receptors, Metabotropic Glutamate** 278  
**Receptors, N-Methyl-D-Aspartate** 330, 43, 278  
**Recombination, Genetic** 25, 251, 263  
**Recovery of Function** 10, 140

- Reinforcement (Psychology)** 35
- Reperfusion Injury** 15, 65, 66, 104, 383, 452, 454
- Repressor Proteins** 60, 238
- Research** 88
- Respiration** 347
- Respiratory Tract Diseases** 322, 394
- Respiratory Tract Infections** 55
- Resuscitation** 313, 50, 332, 234, 449
- Retina** 320, 335, 137, 295, 478, 477
- Retinal Diseases** 295
- Retinal Hemorrhage** 295
- Retinal Perforations** 286
- Reverse Transcriptase Polymerase Chain Reaction** 374
- Rhodiola** 269
- Rickettsia** 139, 172, 174
- Rickettsia Infections** 453
- Rickettsia typhi** 463
- Rickettsiaceae Infections** 173, 198, 258
- Rickettsiae** 198
- Risk-Taking** 21
- RNA, Viral** 96, 457
- Rodentia** 108, 126
- Rotenone** 276
- SAIDS Vaccines** 141
- Saimiri** 443
- Saliva** 37, 364
- Salivary Glands** 458
- Salmonella typhii** 377, 463

- Sarcoma, Kaposi** 40
- Sarin** 430
- Scrub Typhus** 3, 36, 357, 115, 126, 129, 378, 453, 463, 255, 256, 258
- Seeds** 159
- Seizures** 83, 467, 468, 473
- Selenium** 307
- Self-Sustained Sequence Replication** 457
- Sentinel Surveillance** 176
- Sequence Analysis, DNA** 80
- Serine Endopeptidases** 190
- Seroepidemiologic Studies** 40
- Serologic Tests** 463
- Serum** 400
- Sesquiterpenes** 308, 59, 342, 341, 379, 130, 380, 390, 391, 392, 182, 185, 439, 220, 469, 470
- Severity of Illness Index** 180
- Sexual Behavior** 21
- Sexually Transmitted Diseases, Viral** 203
- Shigella** 84, 95, 431
- Shigella flexneri** 441, 455, 259
- Shigella Vaccines** 455
- Shock** 8
- Shock, Hemorrhagic** 313, 332, 234, 449
- Shock, Septic** 316, 387, 388, 402, 214, 436, 437, 438
- Siblings** 170
- Signal Transduction** 107, 118, 119, 155
- Simian Acquired Immunodeficiency Syndrome** 141, 249
- SIV** 249
- Skin** 178, 208, 261

- Sleep** 414, 451  
**Sleep Deprivation** 10, 312, 337, 336, 371, 204, 424  
**Sleep Stages** 360, 371  
**Social Behavior** 406  
**Sodium-Calcium Exchanger** 110  
**Sodium Channel Blockers** 44, 268, 471, 274  
**Sodium Channels** 44, 268, 471, 274  
**Sodium Cyanide** 111  
**Sodium Dodecyl Sulfate** 86  
**Soman** 329, 376, 147, 408, 265  
**South Africa** 170  
**South America** 25, 395  
**Space Flight** 199  
**Spain** 208  
**Spatial Behavior** 420  
**Spectrophotometry, Infrared** 134  
**Spectrum Analysis, Mass** 470  
**Spermidine** 324  
**Spinal Cord** 278  
**Sporozoites** 458  
**Spreading Cortical Depression** 350, 452  
**Squalene** 311  
**Staphylococcus** 316, 387, 388, 436  
**Staphylococcus aureus** 117  
**Steroids** 320  
**Stress** 420  
**Stress, Psychological** 281, 282, 20, 98, 406  
**Substance Abuse, Intravenous** 242

- Superantigens** 437, 438
- Suramin** 64
- Swine** 16, 74, 239
- Synaptic Transmission** 169, 212
- T-Lymphocyte Subsets** 60, 119
- T-Lymphocytes** 4, 31, 334, 76, 110, 118, 367, 370, 141, 144, 155, 156, 238, 243, 245
- Tacrine** 213
- Task Performance and Analysis** 337, 336, 360, 362, 364, 419
- Tea** 165
- Tetracycline Resistance** 84
- Tetradecanoylphorbol Acetate** 319
- Tetraoxanes** 166, 167
- Thailand** 3, 307, 283, 318, 34, 36, 41, 326, 327, 59, 68, 349, 361, 99, 363, 108, 365, 115, 374, 126, 382, 145, 150, 160, 171, 172, 173, 174, 181, 183, 211, 223, 222, 224, 230, 241, 242, 251, 463, 254, 255, 256, 270, 271
- Thalamus** 82
- Thioctic Acid** 366, 114
- Thrombocytopenia** 14, 197
- Tick Infestations** 427, 225
- Ticks** 172, 427
- Tissue Therapy** 246
- Toxicology** 308, 391, 396, 444, 469
- Trans-Activation (Genetics)** 32, 250
- Trans-Activators** 60
- trans-Golgi Network** 193
- Transcription** 450
- Transcription Factor AP-1** 324
- Transcription Factors** 244, 250
- Transcription, Genetic** 48

- Transferrin** 74
- Transforming Growth Factor beta** 154
- Transvestism** 203
- Travel** 227
- Trees** 33
- Trifluoromethyl** 302
- Triorganotin dithiocarbamates** 62
- Trombiculidae** 108, 125, 126
- Trypanocidal Agents** 101
- Trypanosoma brucei brucei** 101
- Trypsin** 190
- Tubercidin** 75
- Tumor Escape** 13
- Tumor Lysis Syndrome** 135
- Tumor Necrosis Factor** 368, 246
- Tumor Suppressor Proteins** 143
- Typhoid Fever** 377
- Tyrosine** 110, 117
- United States** 90
- United States National Aeronautics and Space Administration** 261
- Urine** 407
- Uruguay** 203
- Vaccination** 389, 178, 188
- Vaccines** 142
- Vaccines, Attenuated** 353, 94, 355, 102, 232, 262
- Vaccines, DNA** 141, 144, 178, 188, 189
- Vaccines, Subunit** 71, 437, 438
- Vaccines, Synthetic** 144

- Vaccinia virus** 144
- Variation (Genetics)** 41, 77, 115
- Vascular Cell Adhesion Molecule-1** 65
- Vascular Endothelial Growth Factor A** 154
- Venezuela** 200
- Veratridine** 44
- Vibrio cholerae** 123
- Vietnam** 317, 95, 172, 226
- Viral Diseases** 322
- Viral Load** 257
- Viral Nonstructural Proteins** 78, 472
- Viral Vaccines** 56, 57, 58, 76, 94, 102, 103, 188, 189, 232, 466, 262
- Virus Diseases** 317
- Virus Replication** 78
- Virus Shedding** 280
- Visual Acuity** 419
- Vitamin E Deficiency** 307
- Wakefulness** 360, 424
- War** 281, 282, 50
- Water** 363, 224
- Weightlessness** 199
- West Nile virus** 205
- Wound Healing** 261
- Wounds and Injuries** 50, 288, 343, 344
- Wounds, Nonpenetrating** 74
- Xenopus Proteins** 86
- Yellow Fever Vaccine** 426
- Yersinia pestis** 354, 93, 132

**Zingiberaceae** 101

**Zymography** 359